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No. 22] NEW DELHI, SATURDAY, MAY 28, 1994 (JYAISTHA 7, 1916)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS

Calcutta, the 28th May 1994

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial Jurisdiction on a zonal basis as shown below :—

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III Floor, Lower Parel (West),
Bombay-400 013.

The States of Gujarat,
Maharashtra, and Madhya Pradesh,
and the Union Territories of Goa,
Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

The States of Haryana,
Himachal Pradesh, Jammu and
Kashmir, Punjab, Rajasthan and
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Telegraphic address "PATENTOFIC".

Patent Office Branch,
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The States of Andhra Pradesh,
Karnataka, Kerala, Tamilnadu,
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Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),
"NIZAM PALACE", 2nd M.S.O.
Building, 5th, 6th and 7th
Floor, 234/4, Acharya Jagadish
Bose Road, Calcutta-700 020.

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Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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पेटेंट कार्यालय

एकत्र तथा अभिकल्प

कलकत्ता, दिनांक 28 मई 1994

पेटेंट कार्यालय के कार्यालयों में पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार ओन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोको इस्टेट,
तीसरा तल, लोकर परले (पश्चिम),
बम्बई-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य
क्षेत्र एवं संघ शासित क्षेत्र गोवा, वमन तथा
बीव एवं वादरा और नगर हवेली ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
एक सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, कराँव बाग,
नई दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
61, बालाजाह रोड,
मद्रास-600002 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,
मिनिक्का तथा एमिनिदिचि द्वीप ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय,
भवन 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700020 ।

भारत का अवशेष क्षेत्र ।

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में उप-
क्षित सभी आवेदन-पत्र, सूचनाएँ, विवरण या अन्य प्रलेख पेटेंट
कार्यालय के केवल उपर्युक्त कार्यालय में ही प्राप्त किए जाएंगे ।

शुल्क :—शुल्कों की अवधि या तो नव्व की जाएगी अथवा
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश
अथवा डाक आवेदन या जहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक द्वारा
अथवा बैंक द्वारा की जा सकती है ।

CORRIGENDUM

Under the heading ‘PATENT SEALED’ in the Gazette of India, Part-III, Section 2, dated 13-4-1994, Delete No. 172289 include 172289*.

APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent branch are the dates claimed under section 135, of the patent Act, 1970.

The 6th April, 1994

234/Cal/94 : Combustion Engineering, INC. Heat recovery steam generator inlet duct.

235/Cal/94 Trutzschler GmbH & Co KG, Device for the measurement of the thickness of a fibre bond with a sliver guide to lead the card slivers to the draw-in roller inlet.

236/Cal/94 Asta Medica Aktiengesellschaft. Bulk Inhaler.

237/Cal/94 Cambridge Consultants Limited Improved tabs and manufacture thereof.
(Convention No 9307287 4 dated 7 4-93 in U K)

238/Cal/94. Industrial Technology Research Institute. Two sprocket tooth trimming method & the structure thereof for the multi-stage sprocket assembly of a bicycle

The 7th April, 1994

239/Cal/94. Dr. Jogendra Nath Talukdar. A process for rearing muga silkworm (antheraea assamensis) indoor in commercial scale, bringing revolution to muga silk industry.

240/Cal/94. ABB patent GmbH. Electrical circuit breaker

The 8th April, 1994

241/Cal/94. (1) Fritz Stahlecker, (2) Hans Stahlecker. Bearing assembly for a shaft of a spinning or twisting spindle.

242/Cal/94 Patent-treuhand-gesellschaft fur elektrische gluhlampen MBH. Circuit for high-frequency operation of a load.

(Convention No 2109235 dated 26-10-93 in (Canada))

243/Cal/94 Ems-inventa AG. Planetary gear for a multiple screw extruder

244/Cal/94. Denbar Ltd. A method of cleaning the compressor gas path of gas turbine.

(Divided out of No. 921/Cal/89 dated 6-11-89).

Application for the Patent filed at Patent Office Branch, Municipal Market Building, IIIrd Floor, Karol Bagh, New Delhi-110 005.

The 3rd January, 1994

- 01/Del/94. Eastman Chemical Company, "Epoxidized Block Copolymers."
02/Del/94. Telefonakt Ibolaget LM Ericsson, "A method of completing a Telephone call in a Telephone System."

The 4th January, 1994

- 03/Del/94. Computower Technologies Corp., "Vertical Storage Conveyor with Symmetrical Motor Drive System."
04/Del/94. Piaggio Veicoli Europei S.P.A., "Mixture Preparation Device for Double-feed Engines."
05/Del/94. Motorola Inc., "Communications Receiver with an adaptive squelch system."

The 6th January, 1994

- 06/Del/94. Otto Farkas, "Transient-free Synchronous Electrical Power Machine."
07/Del/94. Rakesh Kumar Jain, "Clean Air Car Cooler."
08/Del/94. Council of Scientific and Industrial Research, "An improved Tape Extensometer."
09/Del/94. Council of Scientific and Industrial Research, "A Device useful for Sea Water/Highly saline brackish water desalination and other industrial separations."
10/Del/94. Council of Scientific and Industrial Research, "A Process for the preparation of Foetal Membrane Collagen useful for wound dressing."
11/Del/94. Council of Scientific and Industrial Research, "A Device useful for Installing Arches in underground Tunnels."
12/Del/94. Morton International Limited, "A Carrier Structure."
(Convention date 12th January, 1993.)—U.K.
13/Del/94. Voest-Alpine Industrie Anlagenbau GMBH, "Process for the production of a Strip, a Pre-Strip or a Slab."

The 7th January, 1994

- 14/Del/94. Isap OMV Group SPA, "Pick-up and transfer head for Hollow Objects especially for Thermoformed Articles."
15/Del/94. Isap OMV Group SPA, "Method and Apparatus for changing the Dies in Equipment for the Thermoforming of Object."
16/Del/94. Chong Kun Dang Corp., "2-(2-substituted pyrrolidin-4-yl) Thio-Carbapenem Derivatives."
17/Del/94. Ajaya Kumar, "Improved Device and method for the Packaging, and Preparation and Consumption of Beverages by individuals."
18/Del/94. The Procter & Gamble Company, "A process for preparing a Pharmaceutical Compositions of Tebufelone."
19/Del/94. Jonathan Cole and Robert Alan, "Solid/Gas double layer Capacitor and electrical storage Device."
20/Del/94. Alexander Schmideier, "A method for treating Bamboo Canes to prevent the cracking of the Bamboo Canes."
21/Del/94. LRC Products Limited, "Flexible Elastomeric Article with enhanced lubricity."

The 10th January, 1994

- 22/Del/94. Lucas Industries Public Limited Company, "Force Sensor."
23/Del/94. L' Air Liquide, Societe Anonyme Pour L'etude ETL L'exploitation Des Procedesgeorge S Claude, "A process for the recovery of C2+OR C3+ fractions of hydrocarbons from a gaseous mixture and an equipment for carrying out such a process."

The 11th January, 1994

- 24/Del/94. Colgate-Palmolive Company, "Soap composition containing sodium pyrophosphate."
25/Del/94. Ingersoll-Rand Company, "Reversible casing for a down-the-hole percussive apparatus."
26/Del/94. Torotrak (Development) Limited, "Improvements in or relating to continuously-variable-ratio transmissions."
(Convention date—18th January, 1993)—U.K.

- 27/Del/94. Basf Lacke+Farben Aktiengesellschaft, "Radiation-curable oligomers and liquid, radiation-curable coating composition for coating glass surfaces."
28/Del/94. Saboo Engineers Private Limited, "A ball mill."
29/Del/94. Arun Kumar Kashyap, Sabyasachi Sinharay, Ambrish Kumar Miera, Madan Mohan Rai and Akhilesh Kumar Bhatnagar, "An improved process for the hydrogenation of linear isoprene polymers and copolymers."
30/Del/94. Rollatainers Limited, "A pouch for storage and dispensing of products."

The 12th January, 1994

- 31/Del/94 Young Sul Kim, "Stable, painless, piroxicam potassium injectable composition."
32/Del/94. Daniel Saiwah Kwoh, and Yee Kong NG, "Method and apparatus for determining addresses in time along a recording tape."
33/Del/94. Michael Mannan, "Antenna." (Convention date—15-1-1993)—U.K.
34/Del/94. The Morgan Crucible Company PLC., "Saline soluble inorganic fibres." (Convention date—15th January, 1993 and 9th July 1993)—U.K.
35/Del/94. Henry Chi Chuen Yuen, Roy Jack Mankovitz, Hingh Y. Ngai, Elsie Y. Leung, Daniel Saiwah Kwoh, Carl Hindman, and Yee Kong NG., "Enhancing operations of video tape cassette players."

The 13th January, 1994

- 36/Del/94. Walter Holzer, "Compact lamp with adapter."
37/Del/94. Honda Giken Kogyo Kabushiki Kaisha, "Structure of shroud opening for the intake of cooling air in air-cooling type internal combustion engine."
38/Del/94. BP Chemicals Limited, "Catalyst compositions and process for preparing polyolefins." (Convention date 19th January, 1993). U.K.
39/Del/94. The Goodyear Tyre & Rubber Company, "Method and apparatus for fabricating a rubberized wire sheet."

The 14th January, 1994

- 40/Del/94. Hirsch Armbänder GmbH, "Leather wrist watch straps."
41/Del/94. Courtaulds coatings (Holdings) Limited, "An antifouling coating composition." (Convention date 13-10-1988 and 12-5-1989). U.K.

- 42/Del/94. Illinois Tool Works Inc., "Bale tie formed with marcelled portion, package comprising compressed bale and such tie and related forming apparatus."
- 43/Del/94. Motorola Inc., "Multiple-modulation communication system."
- 44/Del/94. Sulzer Chemtech AG, "Orderly packing for a column."
- 45/Del/94. Nokia-Maillefer SA., "Device and method for cooling an extrusion cylinder."

ALTERATION OF DATE UNDER SECTION-16

173548

(730/Cal/92)

antedated to 16th March 1989.

173549

(731/Cal/92)

antedated to 16th March 1989.

173550

(732/Cal/92)

antedated to 16th March 1989.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form-14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule-36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta or the appropriate Branch Office on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by two to get the charges as the copying charges per page are Rs. 2/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बन्धित आवेदनो में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से चार(4) महीने या अधिक ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र को उपयुक्त कार्यालय को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप हैं।"

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार, जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 195 A+B [XXIX]

173511

Int. Cl. : F 16 K—15/04

A FOOT-VALVE

Applicant and Inventor : VASANT PANDURANG KOPARDE 912, DECCAN GYMKHANA PUNE-411 004, MAHARASHTRA, INDIA.

Application No. 303/Bom/1990 filed on Nov 21, 1990.

Complete after provisional left—Feb 19, 1992.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

5 Claims

A foot valve comprising :

a vertical hollow housing open at both ends, having integral spherical recess;

a spherical ball adapted to be removable retained within the said a spherical recess and within the vertical hollow housing;

the top opening housing diameter less than the diameter of the ball adapted to be coupled with the extension of a suction pump; and

bottom opening adapted to be fitted with a strainer member.

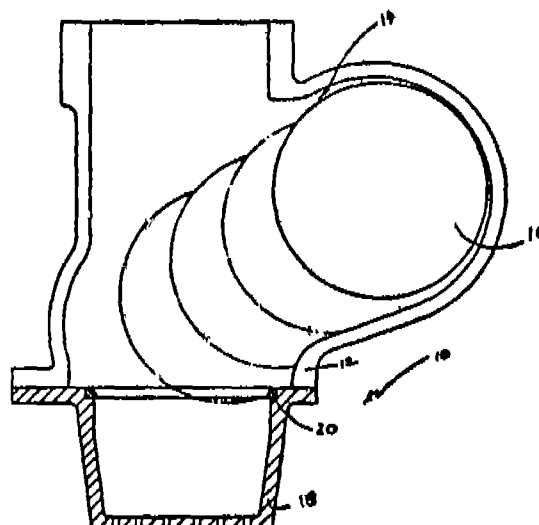


Figure 1

Complete Specn. 8 pages
Provisional Specn. 5 pages.

Drwgs 2 sheets
Drwg 1 sheet

Ind. Cl : 190D [XLIV (4)]

173512

Int. Cl. : F03D, 7/00.

A WIND POWER CONVERTOR WITH VERTICAL SHAFT, TILTING SAILS AND A SAFETY DEVICE.

Applicant : ANAND GOVIND BHIDE, BLOCK NO. 9 GROUND FLOOR, DATTA VIJAY SOCIETY, & INVENTOR : MAHATMA PHULE ROAD, MULUND (EAST), BOMBAY-400 091, MAHARASHTRA, INDIA.

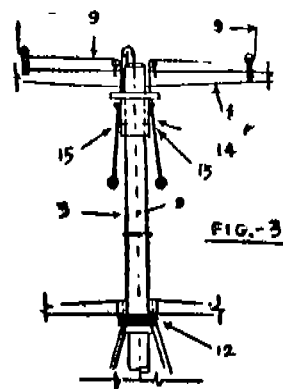
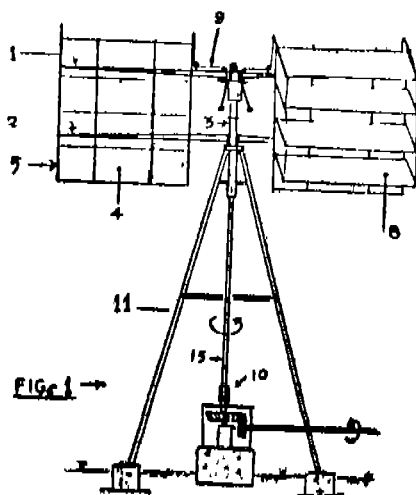
Application No. 19/Bom/1991 filed on Jan 18, 1991.

Comp. After prov. filed on Jan 16, 1992.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Branch Bombay-13.

1 Claim

A Wind Power Convertor with vertical shaft, tilting sails and a safety device, comprising of a hollow central vertical main shaft, a plurality of sails hinged vertically on a plurality of supporting frames mounted on upper and lower ribs fixed radially to the said central vertical shaft, the lower ends of the sails on each supporting frame being connected vertically to each other by string and the upper most sails on each supporting frame having lever arms with spring loading, a speed governor provided as a safety device sliding on the said central vertical shaft, the said speed governor consisting of a drum with top flange and two hinged arms with weights at their free ends and lock pins provided in the middle of the arms, the said lock pins being meshed in the slots made on the central vertical shaft, the top flange of the said speed governor having connected by nylon strings passing over the pulleys, to the free end of the lever arms of the upper most sails on each supporting frame, the said pulleys being mounted on the upper ribs, the said top flange of the speed governor also being connected by another nylon string passing over a pulley mounted on the top of the hollow central vertical shaft, and passing through the hollow vertical shaft and connected to a shaft coupling plate provided at the bottom of a hollow vertical connecting shaft, the said connecting shaft being connected at its upper end to the said central vertical shaft and at its lower end to a shaft coupling adopted to be connected to a load, the said coupling plate sliding vertically in a slot provided at the lower end of the said hollow verticals connecting shaft and engaging in a V notch provided in the upper surface of the said shaft coupling, and a tripod with a thrust bearing at its top supporting the said hollow central vertical main shaft.



Comp. Specn., 8 pages;

Prov. Specn., 5 pages.

Drg 1 sheet

Drg. 1 sheet

Ind. Cl. : 189 GR [LVI (9)]

173513

Int. Cl. : A 61 K-7/40, 7/42, 7/48.

COSMETIC COMPOSITION SUITABLE FOR TOPICAL APPLICATION TO HUMAN SKIN IN ORDER TO REDUCE OR PREVENT THE DAMAGING EFFECT OF ULTRA VIOLET LIGHT ON SKIN.

Applicants : HINDUSTAN LEVER LIMITED, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913 AND HAVING ITS REGISTERED OFFICE AT HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020 MAHARASHTRA, INDIA.

Inventors : GOVINDARAJAN RAMAN, COLLUR VISWESWARIA NATRAI.

Application & Provisional Specification No. 88/Bom/91 filed on 26-03-91.

Complete after provisional specification filed on 24-04-92.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Bombay Branch, Bombay-400013.

8 Claims

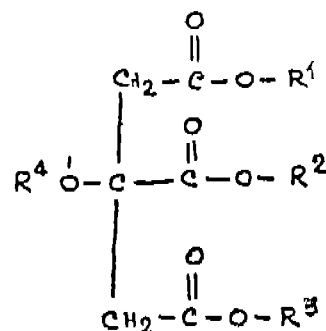
1. A cosmetic composition suitable for topical application to human skin in order to reduce and/or prevent the damaging effects of ultra-violet light on skin, which composition comprises :

(a) from 0.01 to 20% of a triester of citric acid having the structure (1) : where R₁, R₂ and R₃ each independently represent a branched or unbranched alkyl, alkenyl, aryl, alkylaryl or arylalkyl group, each said group being optionally substituted and having from 1 to 18 carbon atoms,

R₄ represents-H, or a branched or unbranched saturated or unsaturated acyl, alkyl, aryl, alkylaryl or arylalkyl group each said group being optionally substituted and having from 1 to 18 carbon atoms; and

(b) from 10 to 99.9% by wt, a cosmetically acceptable vehicle such as herein described for the citric acid ester; and

(c) from 0.1 to 25% of a sunscreen agent such as herein described with the proviso that in the case where the sunscreen agent is an inorganic sunscreen, it has an average particle size of less than 100 nm.



Provisional Specn. 33 pages

Comp. Specn. 32 pages

Drwg. Nil

Drwg. Nil

Ind. Cl. : 27A Gr. [XXVI(1)]

173514

5 Claims

Int. Cl. : E01D-9/02.

A TRAFFIC FLYOVER BRIDGE HAVING PORTAL TYPE SUPERSTRUCTURE AND SHALLOW FOOTINGS/FOUNDATIONS.

Applicants & Inventors : MR. ANIRUDHA SHIVPRASAD BHAGAT & MRS. SHAKUNTALA ANIRUDHA BHAGAT OF A/8, FERREIRA ANNEXE, SITALADEVI ROAD, MAHIM, BOMBAY-400 016, MAHARASHHTRA, INDIA BOTH INDIAN NATIONALS

Application and Provisional Specification No. 124/Bom/91 filed on 06-05-91.

Complete after provisional specification filed on 06-08-92.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Branch, Bombay-13.

4 Claims

A traffic flyover bridge having portal type superstructure with shallow footing/foundation comprising of a plurality of prefabricated truss modules detachably interconnected to form a Portal type superstructure of the flyover bridge, the said portal type superstructure consisting of a horizontal truss integrally provided with two tapered legs at its ends, knee members being provided between the said horizontal truss and the said legs, each of the legs of the said portal type superstructure being rested on bearings provided at the base plate near to the ground level, the said base plate being grouted into a R.C.C. block, the said R.C.C. block being rested into a shallow tapered pit and surrounded by loose ballast. A R.C.C. slab being cast on top of the portal type superstructure for the required width to form the flyover road surface.

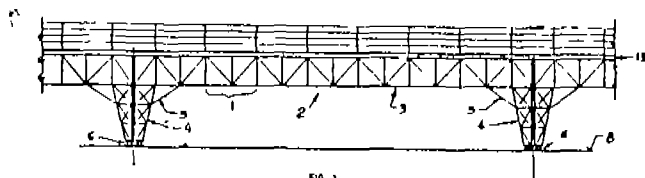


FIG. 1

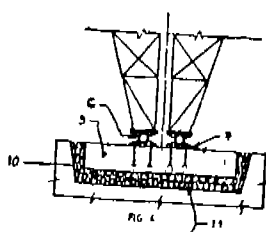


FIG. 2

Prov. Specn. 05 pages.

Comp. Specn. 09 pages

Drgs. Nil

Drg. 1 sheet

Ind. Cl. : 27A GR [XXVI(1)]

173515

Int. Cl. : B 66C-5/00, 6/00,

E61D-15/00, 21/00, 9/00.

A BRIDGING SYSTEM FOR PERMITTING CONSTRUCTION OF UNDER PASSES ACROSS THE RAILWAY EMBANKMENT BELOW THE RAILWAY TRACK WITHOUT STOPPING AND SLOWING DOWN THE SPEED OF THE RAILWAY TRAFFIC.

Applicants & Inventors : ANIRUDHA SHIVPRASAD BHAGAT & SHAKUNTALA ANIRUDHA BHAGAT, A/8, FERREIRA ANNEXE SITALADEVI ROAD, MAHIM, BOMBAY-400 016, MAHARASHHTRA, INDIA.

Application No. 140/Bom/1991 filed on May 13, 1991.

Comp. after Prov. left Aug 13, 1992.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Branch, Bombay-13.

A bridging system, for permitting construction of underpasses across the railway embankment below the railway track without stopping or slowing down the speed of railway traffic, comprising of atleast one pair of side girders, each erected above the ground level, along and outside of the railway track, each of the said side girders consisting of a plurality of detachably attached truss modules, the two ends of each of the side girders being supported on the shallow foundations/footings constructed on the compacted railway embankment outside the railway track, the said footing comprising of a R.C.C./steel block, placed in a shallow pit and being provided at its top a bearing plate, and a bed plate for resting each of the ends of the said side girders, a screw-jack being provided over the said block of the foundation/footing below the end of side girder, a plurality of cross girders connected at their ends to the said side girders, each of the said cross girders being provided across the railway track, into the space in between the two sleepers of the track; clamping means being provided at the said cross girders for clamping the rail on the said cross girders, a plurality of racks being connected in between the said side girders and to the end of the said cross girders, outside the railway track for providing lateral stability to the compression chords of the truss modules of the said side girders

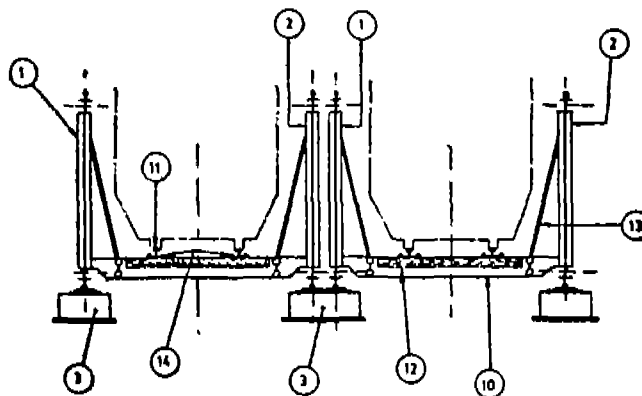


FIG. 3

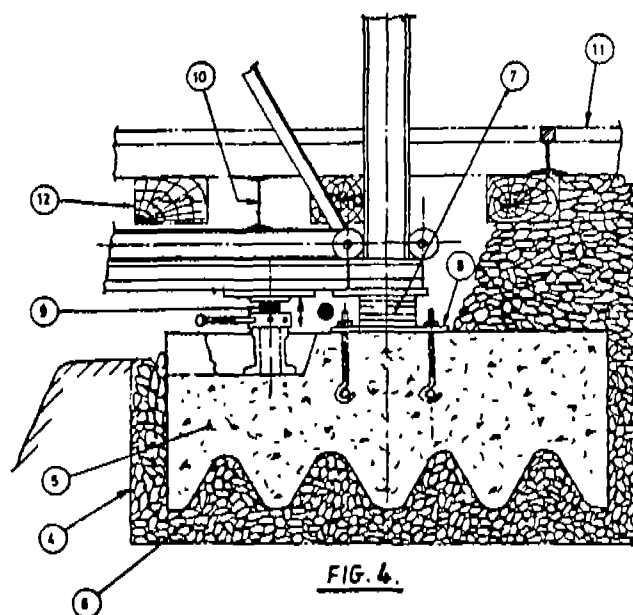


FIG. 4

Comp Specn 12 pages.

Prov. Specn 6 pages.

Drg. 1 sheet

Drg. Nil

Ind. Cl. : 80 K & I [Gr. VI]

173516

Int. Cl. : B 01 D-29/00

A WATER PURIFIER.

Applicants : PERMIONICS (INDIA) LIMITED, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 5/11, BIDC, GORWA, BARODA-390 016, GUJARAT STATE, INDIA AND GUJARAT VENTURE FINANCE LIMITED, AN INDIAN COMPANY HAVING ITS OFFICE AT 2ND FLOOR, NATIONAL CHAMBERS, ASHRAM ROAD, AHMEDABAD-9 GUJARAT STATE, INDIA.

Inventors : (1) SATYAJAI MAYOR (2) SATYAPAL MAYOR (3) PRADEEP SINHA.

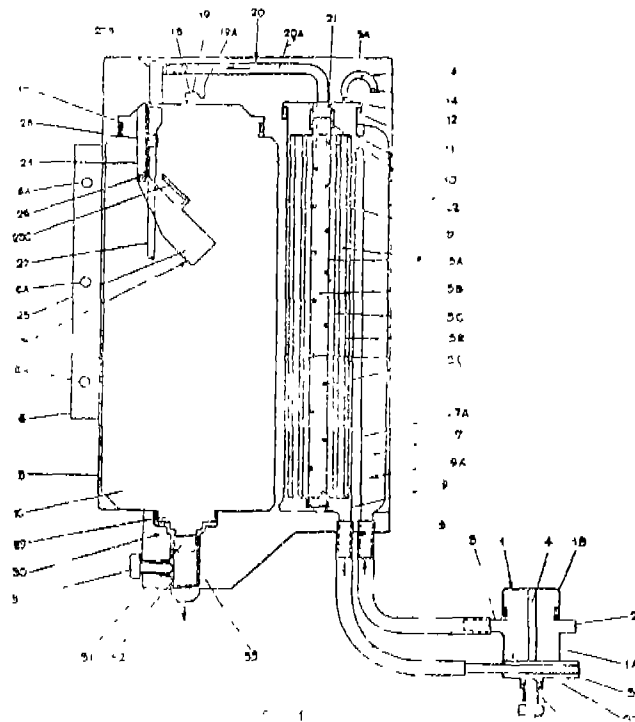
Application No. 184/Bom/91 filed on 24-06-91.

Appropriate office for opposition Proceedings (Rule 4. Patents Rules, 1972) Patent Office, Branch, Bombay-13.

4 Claims

A water purifier including a prefilter means consisting of a prefilter chamber of two piece construction consisting of a lower part and an upper part adapted to be removably fitted to the lower part, said lower part being provided with a water inlet and prefiltered water outlet, said prefilter chamber containing a prefilter pad vertically disposed therein between the water inlet and prefiltered water outlet hereof, said prefilter pad being made up of non-woven cotton or plastic fibres; and a filter and storage means consisting of a vertically disposed housing provided with a mounting bracket and an aperture at the upper end thereof, said housing containing a filter chamber partitioned into a prefiltered water flow passage and a filter compartment vertically by a vertical wall, a first pipe one end of which is connected to the prefiltered water outlet and the other end of which is connected to the lower end of said passage, the upper ends of said passage compartment being inter-connected by an opening in said vertical wall, the upper end of said filter chamber being provided with a closure adapted to be removably fitted thereto, said closure being provided with an air vent fitted with a first flexible tube having a removable plug at the outer end thereof, a spiral wound ultrafiltration membrane module vertically disposed in said compartment and comprising an ultrafiltration membrane spirally wound on a perforated tube with netted spacers between the membrane windings and covered by a non-porous material sheet, the pores size of said membrane being 0.2 to 0.005 microns, said filter chamber further containing a water storage tank, the upper end of said storage tank being provided with a cap adapted to be removably fitted thereto, said cap being provided with an air outlet fitted with a cover having a slit at the side thereof, the upper end of said perforated tube being connected to said storage tank by a pipe line through a float valve, said pipe line consisting of a second pipe fixed to said closure, one end of said second pipe extending into the upper ends of said compartment and perforated tube and connected to the upper end of said perforated tube in a leak proof manner, the other end of said second pipe projecting out of said closure, a third pipe one end of which is fixed to said cap and extends into said storage tank and other end of which is connected to the other end of said second pipe, said float valve consisting of a vertically disposed support member mounted on said cap, a float one end of which is provided with a pair of spaced apart lateral arms pivoted on said support member such that said one end of said float is in spaced apart relationship with said support member, said one end of said float being provided with a projection directed towards said support member, the tip of said projection being in spaced apart relationship with said support member and a second flexible tube vertically disposed and clamped on said support member and confronting the tip of said projection, the upper end of said second flexible tube being connected to said one end of said third pipe and the lower end of said second flexible tube extending to the lower end of said support member, the lower end of said storage tank being provided with a pure water outlet fitted with a pure water discharge valve consisting of a nozzle fitted at the pure water outlet, a third flexible tube one end of which is connected to an support on said nozzle, a first rigid sleeve disposed over said third flexible tube in spaced apart relationship therewith and adapted to be removably fitted to said pure water outlet and a first knob disposed in said first sleeve radially in

thread engagement therewith, the edge of said first knob abutting said third flexible tube, and a flush water discharge valve consisting of a fourth flexible tube disposed in a second rigid sleeve in spaced apart relationship therewith, said second sleeve being supported at the bottom of said prefilter chamber, one end of said fourth flexible tube being connected to and supported on one end of a fourth pipe, the other end of said fourth pipe being connected to the lower end of said compartment, a second knob disposed in said second sleeve radially in thread engagement therewith, the edge of said second knob abutting said fourth flexible tube.



Comp. Specn. 18 pages

Drgs. 5 sheets.

Ind. Cl. : 70C5, C6 [LVIII (5)]
173 B [XXIX (2)]

173517

Int. Cl. : C 25 D-9/00, B, 05D 1/06

AN IMPROVED DEVICE FOR CONTINUOUS ELECTROSTATIC DEPOSITION OF POWDER PAINT OVER AN ARTICLE TO BE POWDER COATED.

Applicants : INTECH EXPORTS PVT. LTD., 'ANAND TARANG', 17, SHIVPARVATI HOUSING SOCIETY, PAUD ROAD, PUNE-411 038, MAHARASHTRA, INDIA.

Inventor : YASHWANT GOPAL GHAIAS.

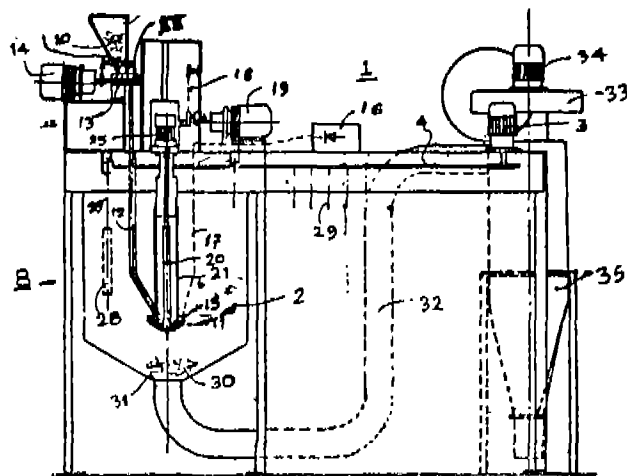
Application No. 255/Bom/1991 filed on Sep. 5, 1991.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972), Patent Office, Bombay Branch.

2 Claims

1. An improved device for continuous electrostatic deposition of powder paint over an article to be powder coated comprising a closed chamber having at its upper level a motor driven conveyor forming a loop for carrying the articles to be powder coated, the powder coating module is provided at the centre of the said loop, the said module comprising a hopper for holding powder paint, a turbine disc assembly provided at the lower end of a vertical shaft, the said vertical shaft passing through an insulated tubular housing, the upper end of the said vertical shaft being connected to a motor, a delivery tube being connected to the said

hopper through a metering and powder feeding device, the other end of the said delivery tube being connected to the said turbine disc assembly, the said turbine disc assembly comprising a lower disc and an upper disc acting as a cover, the said lower disc having upwardly projecting outer surface, with plurality of louvred flaps an electrode plate being fitted at the lower end of the said insulated tubular housing just above the said turbine disc assembly, the said electrode plate being connected to a high voltage generator with the help of high tension cable, a reciprocating mechanism worked by a motor being provided at the upper end of the chamber for upward and downward movement of the said electrode plate along with the said tubular housing and the said turbine disc.



Comp. Specn. 7 pages

Drgs. 3 Sheets

Ind. Cl. : 32A, & 32 F2 (a) [IX (1)]

173518

Int. Cl. : C07C-65/00, 65/11.

AN IMPROVED PROCESS FOR THE MANUFACTURE OF BON-ACID.

Applicant : VIKRANT DYE INTERMEDIATE PVT. LTD. A-1, NEW ASHMITA APPT., BH COMMERCE COLLEGE, BUS ST. NAVRANGPURA, AHMEDABAD-380 009, GUJARAT STATE, INDIA, A PRIVATE LIMITED COMPANY DULY REGISTERED UNDER COMPANIES ACT.,

Inventors : 1. VIVEK. PRATAP PHADTARE 2. DR. PRATAP GOPALRAO PHADTARE.

Application No. 302/Bom/91 filed on 11-10-91.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Branch, Bombay-13.

5 Claims

An improved process for the manufacture of BON-ACID comprising by obtaining anhydrous sodium-2-Naphtholate in the smallest possible particle size of less than 0.002 microns, by adding caustic lye at a regulated rate to 2-Naphthol dissolved in kerosene/alkyl Benzene which is kept at a reflux temperature say at 100°C to 200°C under vacuum of without vacuum and also removing the water that is added and formed during the reaction from the top of the fractionating column; wherein trace quantity of 2-Naphthol (nil moles to 0.1 mole per mole of 2-Naphthol charge) is used during dehydration, also in the same batch trace quantity of 2-Naphthol (nil moles to 0.1 moles per mole of 2-Naphthol) is used after completion of dehydration and before introducing CO2 gas.

Compl. Specn. 11 pages

Drg. Nil

Ind. Cl. : 98 I

173519

Int. Cl. : F 26 B-3/28.

A COLLAPSIBLE SOLAR DRYER.

Applicants : BHABHA ATOMIC RESEARCH CENTRE, TROMBAY, BOMBAY-400 085, MAHARASHTRA, INDIA, A SCIENTIFIC INSTITUTION OF THE DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA.

Inventor : KIZHAKKEKUTTIKATTU KARUNAKARAN VISWAMBHARAN NAIR.

Application No. 09/Bom/92 filed on 07-01-1992.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972), Patent Office, Bombay Branch, Bombay-400013.

2 Claims

A collapsible solar dryer consisting of a housing comprising a tray shaped base made of a good thermal conductor material, said tray shaped base being provided with a thermal insulator material pad sheet and a plurality of spaced apart legs rigidly fixed to the outer surface of the bottom thereof, and a plurality of air inlets through the raised edge thereof, said dryer further consisting of a converging upper portion comprising a pair of tapered cover elements made of a good thermal conductor material and disposed vertically oppositely spaced apart, the lower ends of said cover elements being hinged to the raised edge of said tray shaped base at different levels of heights, said cover elements being removably clamped onto the raised edge of said tray shaped base, the inner surface of said cover elements being provided with a plurality of perforated tray support means, said upper portion further comprising a pair of cover members disposed between said cover elements vertically oppositely spaced part and vertically inclined towards each other from the lower ends to the upper ends thereof, the lower ends of said cover members being removably supported on the raised edge of said tray shaped base and the upper ends of said cover members defining an air escape path therebetween, the lower parts of said cover members being made of a good thermal conductor material and the upper parts of said cover members being made of a transparent thermal insulator material, the sides of said cover members abutting the said cover elements and being removably clamped onto said cover elements, the outer surfaces of the raised edge of said tray shaped base, said cover elements and the lower parts of said cover members being provided with a mat black paint coating and a plurality of perforated trays located on said support means.

Compl. Specn. 16 pages

Drgs. 4 Sheets.

Ind. Cl. : 128 K, F. [XIX (2)]

173520

Int. Cl. : A 61 B 17/00; 17/02

AN IMPROVED ILLUMINATED CARDIAC RETRACTOR.

Applicant & Inventor : TILAK RAJ CHAUDHARY 32/2, MEGHAL INDUSTRIAL ESTATE, DEVIDAYAL ROAD, MULUND (W), BOMBAY-400 080, MAHARASHTRA, INDIA.

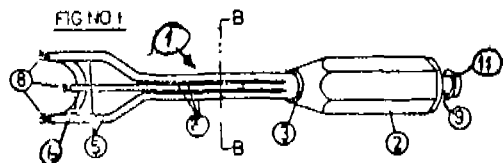
Application No. 97/Bom/1992 filed on March 30, 1992.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972), Patent Office, Bombay Branch, Bombay-400013.

4 Claims

An improved illuminated cardiac retractor (1) comprising of a hollow handle (2) and a plurality of retracting blades (4) fitted at one end (3) of the said handle, the front part of the two side retracting blades being first bent outwardly (5) and then downwardly and connected together forming a curved jaw (6), the central blade being bent downwardly and connected to the said curved jaw, a tubing/sheath (7) being superimposed over each of the said retracting blade, one end of each tubing fitted to the handle and the other end forming tip (8) of the said tubing ending just ahead of the downward bend of each of the said blade, a nipple (9) being provided at the other end of the said handle, a bunch

of optical fibres (10) being passed through the said nipple and divided into branches according to the number of blades inside the said handle and being carried through the said tubing upto the tips and the said optical fibres being sealed by epoxy/transparent resins at the tips of each tubing and at the end of the said nipple, an adaptor (11) being provided over the free end of the said nipple adopted for connecting thereto one end of flexible optical fibre cable, the other end of which is connected to a source of bright light.



Compl. Specn. 8 pages.

Drq. 1 Sheet

Ind. Cl. : 90EI

173521

Int. Cl.⁴ : C03B 5/08.

APPARATUS FOR HEATING MATERIAL PARTICULARLY FOR LIQUEFYING GLASS BATCH MATERIAL.

Applicant : PPG INDUSTRIES, INC, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA OF ONE PPG PLACE, PITTSBURGH 22, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

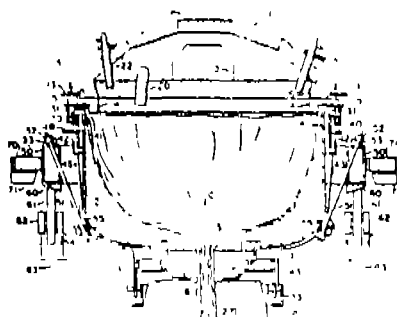
Inventors : GEORGE CLARENCE NEWCAMP, JOHN FINNIE MCCONNELL, RICHARD ANGELO CARIPOLTI, ROBERT FULTON JOHNSTON, PAUL ROBERT ROSS AND JOHN WILLIAM PETER.

Application for Patent No. 1121/Del/86 filed on 22 Dec 1986.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

7 Claims

Apparatus for heating material, particularly for liquefying glass batch, comprising a vessel of substantially cylindrical configuration having a cavity for containing a quantity of material to be heated, and heating means positioned to direct heat toward material within the vessel characterised in that a ring-like structure such as a support table encircling the vessel and rotatably supported on wheels, said support wheels being rotatably mounted on a support so as to support said ring-like structure about a substantially vertical axis of rotation for the vessel, said ring-like structure being spaced from the vessel and being connected thereto by link means so as to permit radial expansion of the vessel relative to the ring-like structure.



Compl. Specn. 14 pages
2-87 GI/94

Drq. 1 Sheet

Ind. Cl. : 90EI

173522

Int. Cl.⁴ : C03B 5/08

AN APPARATUS FOR MANUFACTURING THE LIQUID GLASS BATCH.

Applicant : PPG INDUSTRIES, INC, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA, OF ONE PPG PLACE, PITTSBURGH 22, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventors : FRANCIS ANDREW RADECKI, GARY NOEL HUGHES AND HENRY CLAUDE GOODÉ.

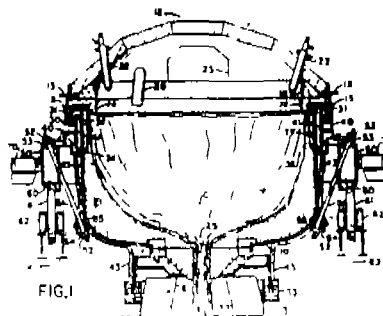
Application for Patent No. 33/Del/87 filed on 16 Jan 1987.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, New Delhi-110 005.

4 Claims

Apparatus for manufacturing liquid glass batch comprising :

a vessel (10) having side walls and a bottom mounted for rotation about a substantially vertical axis, means (20) for feeding pulverulent material into the vessel, radiant (22) heating means located with respect to said vessel for directing radiant heat towards the interior of the side walls thereof, outlet (25) means for draining liquefied material from the vessel, the vessel being so constructed that a layer of the pulverulent (21) material forms on the interior walls of the vessel tapering from a relatively thin upper portion to a relatively thick lower portion, characterised in that a partial lining of (35) refractory adherent to the upper interior side wall portions of the vessel is provided in at least areas where the pulverulent layer is relatively thin.



Compl. Specn. 16 pages

Drq. 1 sheet

Ind. Cl. : 84 C 1

173524

Int. Cl. : B01 J-8/24, C 10 J-3/3/02, 3/14.

FLUIDIZED BED GAS GENERATOR FOR ALLOTHERMAL COAL GASIFICATION.

Applicant : BERGWERKSVERBAND GmbH., OF FRANZ-FISCHER-WEG 61, 4300 ESSEN 13., WEST GERMANY.

Inventors : HELMUT KUBIAK, HANS JURGEN SCHROTER, GUNTHER GAPPA, HEINRICH KALWITZKI, KLAUS KNOP.

Application for Patent No. 934/Del/87 filed on 26th Oct, 1987.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, New Delhi-110 005.

6 Claims

Fluidized bed gas generator for allothermal coal gasification under pressure with steam comprising a gas generator (20) having a cylindrical pressure vessel (1) said cylindrical pressure vessel (1) being divided into a heating and pyrolysis chamber (2), a fluidized bed gasification chamber (3) and a cooling chamber (4), heat exchanger tubes (10, 12) mounted within the heating and pyrolysis chamber (2) and the

gasification chamber (3) respectively, coal feed inlets (6) connected to the heating and pyrolysis chamber (2) for supplying fine coal dust jet feeder (5) located inside said heating and pyrolysis chamber (2) and connected to said coal feed inlets (6), steam inlets (7) connected to said gasification chamber for supplying super heated steam into said gasification chamber (3), distributor plates (8) mounted within said gasification chamber (3) and connected to said steam inlets (7) for distributing said steam to said fluidised bed, further steam inlets (16) connected to said cooling chamber (4), a further distributor plate (17) mounted within said cooling chamber (4) and connected to said further steam inlets (16) a heat carrier gas inlet (13) connected to said gasification chamber (3) and an internal or external connecting line (11) connected to said heat exchanger tubes (10, 12) mounted within said heating and pyrolysis chamber (2) and said gasification chamber (3), a heat carrier gas outlet (9) connected to said heating and pyrolysis chamber (2), a weir impermeable for gas and solids (14a) is located between the gasification chamber (3) and the heating and pyrolysis chamber (2) and a weir impermeable for gas and solids (14b) is located between the gasification chamber (3) and the cooling chamber (4) and a gas collecting chamber (15) with gas outlet (21) is located above the chamber (2, 3, 4).

Compl. Specn. 19 pages

Drgs. 2 sheets

Ind. Cl. : 129 J.

173524

Int. Cl.⁴ : B21D 3/00, 3/02, 7/00, 21/00.

DECELERATOR APPARATUS FOR HOT ROLLED PRODUCT.

Applicant : MORGEN CONSTRUCTION COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF MASSACHUSETTS, UNITED STATES OF AMERICA, OF 15 BELMONT STREET, WORCESTER, MASSACHUSETTS 01605, UNITED STATES OF AMERICA.

Inventors : ALEXANDER IWAN WILSON.

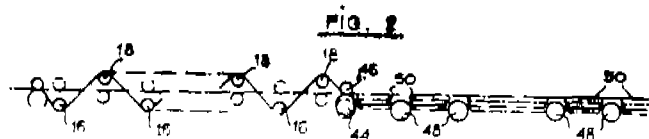
Application for Patent No. 956/Del/87 filed on 3 Nov 1987.

Convention date 14 Nov 1986/8627279/UK.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, New Delhi-110 005.

10 Claims

Decelerator apparatus for hot rolled product existing from a final rolling mill stand, the apparatus being characterised by a shearing means (11) for severing rolled product existing from the final rolling mill stand into pre-determined lengths, a switch (10) connected to said shearing means for switching alternate cut lengths of rolled product on to separate tracks (12, 14), each of said tracks (12, 14) being provided with a plurality of displaceable rollers (16, 18) for bending a leading length of the hot rolled product in a direction perpendicular to the original direction of the rolled product when it exists the rolling mill stand, said bending of the leading length of hot rolled product enabling the forward speed of the leading length of rolled product to be retarded with respect to a following length of rolled product prior to the leading length being severed from the following length and while the following length remains in the mill and without slowing down the rate at which the final rolling mill stand operates,



Compl. Specn. 22 pages

Drgs. 4 sheets

Ind. Cl. : 90 K.

173525

Int. Cl.⁴ : C 03 B 5/18.

METHOD AND APPARATUS FOR THE MANUFACTURE OF FLAT GLASS OF HIGH OPTICAL QUALITY

Applicant : PPF INDUSTRIES, INC. A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA, OF ONE PPG PLACE, PITTSBURGH 22, STATE OF PENNSYLVANIA 15272, UNITED STATES OF AMERICA.

Inventors : GEORGE ANTHONY PECORARO & JOSEPH A. GULOTTA.

Application for Patent No. 1140/Del/87 filed on 28th Dec., 1987.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, New Delhi-110 005.

21 Claims

A method for the manufacture of flat glass of high optical quality wherein a stream of molten glass is passed to a glass sheet forming operation in a forming chamber, characterized by stirring the molten glass while at a temperature suitable for stirring and while floating on a pool of molten metal such as of the kind as herein described so as to substantially homogenize the glass, and then passing the resulting homogenized glass to the forming operation wherein the glass is supported on a layer of molten metal in said forming chamber during the forming operation and the resulting flat glass sheet is removed from the forming chamber after the glass has fallen to a temperature for forming said glass sheet

Apparatus for carrying out the method of claim 1 which comprises a vessel having a pool of molten metal at the bottom thereof an entrance in said vessel for feeding molten glass onto the pool of molten metal, a plurality of stirrers extending into said vessel for stirring the molten glass in the vessel on the molten metal pool and an opening from said stirring vessel leading to an adjacent chamber whereby said molten metal pool communicates with said chamber with which the molten glass is formed into a flat ribbon.

Compl. Specn. 24 pages

Drgs. 3 sheets

Ind. Cl. : 37 F₈₀ & 170D

173526

Int. Cl.⁴ : C01C 35/23.

AN IMPROVED PROCESS FOR THE MANUFACTURE OF GERANIOL FROM CITRONELLA OIL.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : KEDAR PRASAD SINGH.

Application for the Patent No. 1049/Del/87 filed on 8 Dec., 1987.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, New Delhi-110 005.

11 Claims

An improved process for the manufacture of geraniol from citronella oil which comprises fractionating the citronella oil under vacuum at a temperature in the range of 35-170°C so as to remove as fractions, azeotropes, low boiling components and citronella at relevant functioning temperature within said range, remaining residual concentrate being hydrolysed using alkali followed by acid neutralization and again fractionating the hydrolysed neutralised concentrate containing mainly geraniol and citronella at a temperature in the range of 70-190°C under vacuum, to produce geraniol as a last fraction.

Compl. specn. 18 pages

Drgs. Nil

Ind. Cl. : 189 LXVI (10)

173527

Int. Cl.⁴ : A 61 K 7/18.

DENTAL CALCULUS INHIBITING COMPOSITIONS

Applicant : THE B.F. GOODRICH COMPANY, A NEW YORK CORPORATION WITH BUSINESS OFFICES AT 3925 EMBASSY PARKWAY, AKRON, OHIO 44313, U.S.A.

Inventor : ZAHID AMJAD.

Application for Patent No. 704/Del/88 filed on 16 Aug 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, New Delhi-110 005

11 Claims

An oral composition comprising :

(a) from 0.005 to 3.0% by wt. of a fluoride source of the kind such as herein defined

(b) from 10 to 99% by wt of a dental abrasive;

(c) 0.01 to 10% by weight of an anticalculus agent selected from homopolymers of monounsaturated monocarboxylic and dicarboxylic acids of 3 to 5 carbon atoms, salts and anhydrides thereof, and from copolymers containing at least 30% by weight of a carboxylic monomer selected from said acids, and mixtures of such anticalculus agents and the balance, if any, being constituted by conventional inert and vehicles.

Compl. Specn. 39 pages

Drg. 1 sheet

Ind. Cl. : 32 F 2 B [IX (1)].

173528

Int. Cl. : C07C 65/10.

A PROCESS FOR THE PURIFICATION OF SALICYLIC ACID.

Applicant & Inventors : DR. SATISH CHANDRA BISARIA, MOHALLA KHURJA GATE, CHANDAUSI, DIST. MORADABAD (UTTAR PRADESH) INDIA, (2) DR. (MS) RAMA RAO, 369, 10TH MAIN B' ROAD, III BLOCK, JAYANAGAR, BANGALORE-560011 (KARNATAKA) AND (3) K. PARAMESWARAN, NO. C-8, HIG-SFS APARTMENTS, 6TH B CROSS ROAD, YELAHANKA NEW TOWN BANGALORE-560064 (KARNATAKA), INDIA (ALL INDIAN CITIZENS).

Application for patent No. 925/Del/88 filed on 26 Oct 1987.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, New Delhi-110 005.

4 Claims

A process for the purification of salicylic acid directly from aqueous solution of Kolbe-Schmitt product which comprises of :

(a) Acidifying the aqueous solution of Kolbe-Schmitt reaction product with dilute sulphuric acid or hydrochloric acid to pH between 5-6, followed by activated pellet, granular or powdered charcoal treatment (b) filtering (c) Adding iron-chelating agent and reducing agent to the filtrate obtained after charcoal treatment as in (b) above and precipitating salicylic acid from this solution by adding dil. aq. solution of sulphuric acid or HCL as a precipitating agent till complete precipitation occurs (d) Collecting precipitated salicylic acid by filtration (e) washing Salicylic acid with water till free of chloride and/or sulphate ions (f) dissolving the washed salicylic acid in hot water completely and gradually cooling the solution to allow crystallization (g) Collecting the crystals by filtration and drying the product in hot air oven between 50-75°C, thus given crystalline salicylic acid of 99% purity.

Compl. Specn. 9 pages

Drg. Nil

Ind. Cl. : 32G IX(1).

173529

Int. Cl.⁴ : C07D 498/10

AN IMPROVED PROCESS FOR THE ENZYMIC TRANSFORMATION OF RIFAMYCIN B TO RIFAMYCIN S.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : RAKESH MULRAI VOHRA, SYMALIMA DUBE, UTTAM CHAND BANERJEE.

Application for patent No. 983/Del/88 filed on 15 Nov. 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, New Delhi-110 005.

5 Claims

An improved process for the enzymatic transformation of Rifamycin B to Rifamycin S which comprises preparing an enzyme rifamycin oxidase by cultivating a micro organism *Curvularia lunata* var *aeria* having MTCC No. 165 in a nutrient medium containing assimilable carbon, nitrogen and growth factor, incubating the same at a temperature in the range of 25 to 55°C under continuous agitation, separating the enzyme produced from the microorganisms by filtration, treating rifamycin B with the said separated enzyme at a temperature in the range 5 to 60°C at a pH from 5.0 to 8.0 for 4 to 8 hrs under agitation.

Compl. Specn. 7 pages

Drg. Nil

Ind. Cl. : 32-F₂ (b)

173530

Int. Cl.⁴ : C07D, 205/08.

A PROCESS FOR THE PREPARATION OF (S)-1-TERT. BUTYLDIMETHYLSILYL-4-(R) 1-METHYL-2-HYDROXYETHYL) AZETIDIN-2-ONE.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA AN THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

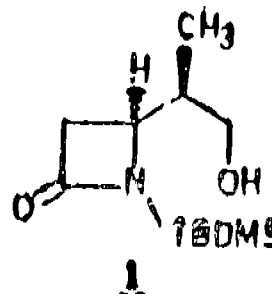
Inventor(s) : ALLA VENKAT RAMA RAO, MADHUSUDAN NAGORAO DESHMUKH, MUKUND KESHAO GURJAR, VIVAK BALCHANDRA KHARE.

Application for patent No. 512/DEL/89 filed on 13 jun 1989.

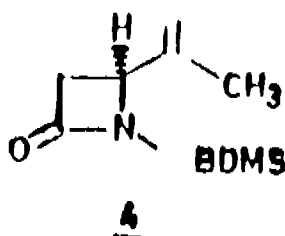
Appropriate office for opposition proceedings (Rule 4, patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

An improved process for the preparation of (S)-1-tert. butyldimethylsilyl-4- [(R)-1-methyl-2-hydroxyethyl] azetidin-2-one of the formula I of the drawing accompanying this specification.



which comprises selective hydroboration oxidation of (S)-1-tert. butyldimethylsilyl-1-(isopropenyl) azetidin-2-one of the formula 4.



with hydroboration agent such as borane dimethyl sulfide complex, 9-BEN. BH-THF in presence of solvent at room temperature for about 2 hrs under stirring, then treating with H_2O_2 in sodium acetate for 1 to 1.5 hrs recovering (S)-1-tert-butyldimethylsilyl -4-(R)-1-methyl -2-hydroxyethyl) azetidin-2-one by known methods.

(Complete Specification 5 Pages

Dr. 1 Sheet).

Ind. Class-48-A₃-[GROUP-LVIII(3)]

173531

Int. Cl.⁴-H 01 B 1/00

A METHOD OF, AND AN APPARATUS FOR, THE PREPARATION OF OXYGEN ENRICHED, ORTHORHOMBIC, SUPERCONDUCTING YTTRIUM COPPER OXIDE POWDER.

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, I.I.T. P.O., MADRAS-600 036, TAMIL NADU, INDIA, AN AUTONOMOUS BODY SET UP BY THE GOVERNMENT OF INDIA UNDER AN ACT OF PARLIAMENT.

Inventors : (1) GUNDLAPULI VENKATA SUBBA
(2) DR. KAMATAM KRISHNAI
(3) KODDUMUKKULUR DHARMA RAJA CHANDRASEKARAN
(4) DR. UPADHYAYULA VENKATA VARADARAJU

Application No. 16/MAS/89 filed January 6, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

A method of preparing oxygen enriched, orthorhombic, superconducting yttrium barium copper oxide (YBCO) powder of the formula $YBa_2Cu_3O_{7-\delta}$ with $\delta = 0.05-0.20$ wherein oxygen deficient, tetragonal, non-superconductive YBCO powder is fluidized in the presence of a stream of oxygen at a temperature of substantially 250°C to 1000°C over an interval of time of substantially 2 to 24 hours, to obtain the desired product.

An apparatus for carrying out the method as claimed in Claim 1 for preparing oxygen enriched, orthorhombic, superconducting yttrium barium copper oxide (YBCO) powder comprising a vertical refractory tube having a horizontal porous distributor plate fixed within it for receiving the YBCO powder thereon; an electric furnace surrounding the said tube; a source of oxygen gas and a compressor connected to flow meters and to the said tube for passing an upward stream of the said gas through the said distributor plate for fluidizing the said powder; a cyclone for collecting elutriated particles therein and releasing the unreach oxygen therefrom; and means for measuring the pressure drop of the said gas within the tube and the temperature within the tube.

(Comp. Specn.

Drawg.—1 sheet)

Ind Cl. : 98 E. & 176F.

173532

Int. Cl.⁴ : F 23 c 9/00, F 01 K 23/06.

"A POWER GENERATION SYSTEM"

Applicant : A AHLSTROM CORPORATION, A FINISH BODY CORPORATE, DOMICILED AT SF-29600 NOOR-MARKKU, FINLAND.

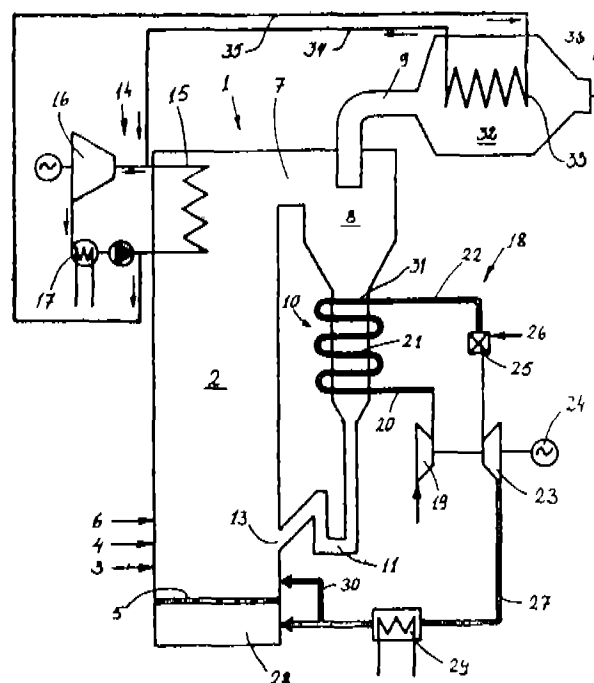
Inventors : 1. FOLKE ENGSTROM.
2. JUHANI ISAKSSON.

Application No. 123/Mas/89 filed on 15th February 1989.

Appropriate office for opposition Proceeding (Rule 4, Patents Rules 1972) Patent Office Branch, Madras-600 002.

7 Claims

A power generation system comprising a circulating fluidized bed reactor system having a combustion chamber, a particle separator connected to the outlet for combustion gases in the combustion chamber and a substantially vertical channel, disposed between the lower end of the particle separator and the lower end of the combustion chamber, for conveying separated solid particles downwards from the particle separator back into the combustion chamber; a gas turbine cycle system having a gas compressor for compressing gas, a heat transfer means for heating the compressed gas from the compressor and a gas turbine connected through a duct to the heat transfer means for expanding the compressed gas, wherein said heat transfer means in said gas turbine cycle system has heat exchange passage disposed inside said substantially vertical channel in said circulating fluidized bed system for leading the compressed gas inside said heat exchange passages in indirect contact with the solid particles flowing downwards in said vertical channel.



(Complete Specification—20 pages

Dr. 3 Sheets)

Ind. Cl.-151-E-[GROUP-XLVIII(2)]

173533

5 Claims

Int. Cl.-F 16 L 1/00

A METHOD OF MAKING A REPLACEMENT PIPE MEMBER IN AN EXISTING PIPELINE

Applicant : NUPIPE, INC., OF 3315 DEMOCRAT
ROAD, MEMPHIS, TN 38118, AN OREGON CORPORA-
TION, U.S.A.

Inventor : CAMPBELL HALL STEKETEE

Application No. 274/MAS/89 filed April 11, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

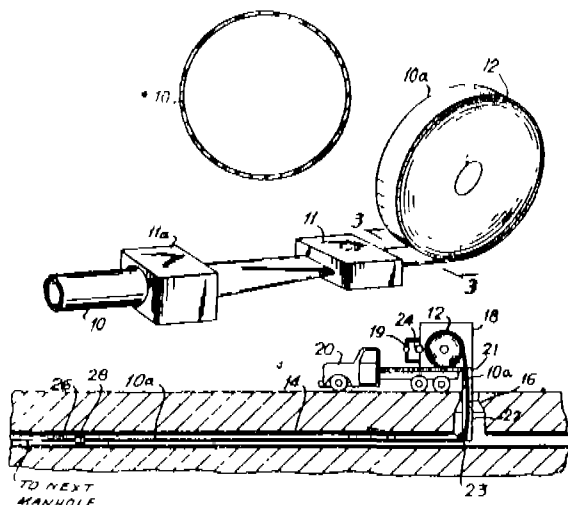
A method of making a replacement pipe member in an existing pipeline, comprising the steps of :

Providing a replacement pipe member (10), in a reduced form having a heat-activated memory for such reduced form to an access opening (16) of the existing pipeline (14);

heating a length of the replacement pipe member (10), while in the reduced form, to a heated longitudinally pliable state :

inserting the replacement pipe member (10) into a position within the existing pipeline (14) while in the heated and pliable state;

expanding the replacement pipe member (10) to an expanded shape by applying heat and internal pressure to the replacement pipe member (10) and cooling it to stabilize it in the expanded form.



(Comp. Specn.—42 pages;

Drwgs.—8 sheets)

Ind. Cl.-39-0-[GROUP—III]

173534

Int. Cl.⁴ : C 01 B 33/28

A PROCESS FOR PREPARING A ZEOLITE OF THE GALLOSILICATE TYPE WITH A MFI STRUCTURE

**Applicant : INSTITUTE FRANCAIS DU PETROLE, A
FRENCH BODY CORPORATE OF 4, AVENUE DE BOIS
PREAU 92502, RUEIL-MALMAISON, FRANCE.**

Inventors : (1) ALAIN SEIVE

(2) JEAN-LOUIS GUTH

(3) FRANCIS RAATZ

(4) LAURENT PETIT

Application No. 312/MAS/89 filed April 25, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

A process for preparing a zeolite of the gallosilicate type with a MFI structure and having a fluorine content of 0.02% to 1.5% weight, a $\text{Si}^{\text{IV}}/\text{Ga}^{\text{III}}$ molar ratio at least equal to 8.6, and an X-ray diffraction diagram selected from the diagrams shown in Figures 1 and 2; the said process comprising the steps of : (a) preparing a dissolved reaction mixture with a pH value not more than 10, containing water, at least one silicon source, at least one trivalent gallium source, at least one source of F-fluoride ion and a source of at least one structuring agent selected from the group consisting of dialkylamines, trialkylamines, ammonium cations derived from said amines by protonation and tetraalkylammonium cations, said mixture having a composition in terms of molar ratios ranging from :

Si^{ix} to Gaⁱⁱⁱ : 2 to 1,000F to Si^{IV} : 0.05 to 3

Organic structuring agent to SI^{lv} : 0.04 to 1

$$\text{H}_2\text{O to SI}^{\text{IV}} : 4 \text{ to } 400$$

(b) heating said mixture up to a temperature not exceeding 270°C for a duration sufficient to obtain gallosilicate crystals.

(c) calcining said crystals at a temperature not less than 400°C to remove the organic or ammonium cations contained in the raw synthesis product to obtain the said synthetic zeolite

FIGURE 1

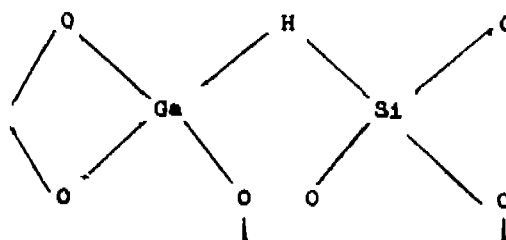
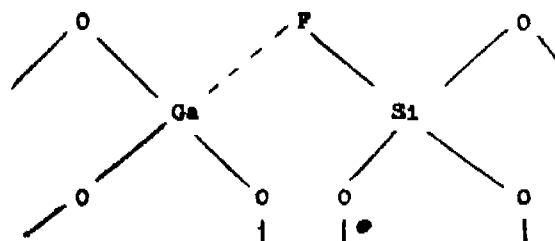


FIGURE II



(Com.—30 pages;

Drwg.—1 sheet)

173535

Ind. Class - 64B₃ & 128-II[GROUPS - XLVIII(1) & XIX(2)]Int. Cl.⁴ - A 62 B 7/10**A FILTER ELEMENT FOR RESPIRATORS OR FACE MASKS**

Applicant : MINNESOTA MINING AND MANUFACTURING COMPANY, INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A. OF 3M CENTER, ST. PAUL, MINNESOTA 55144, U.S.A.

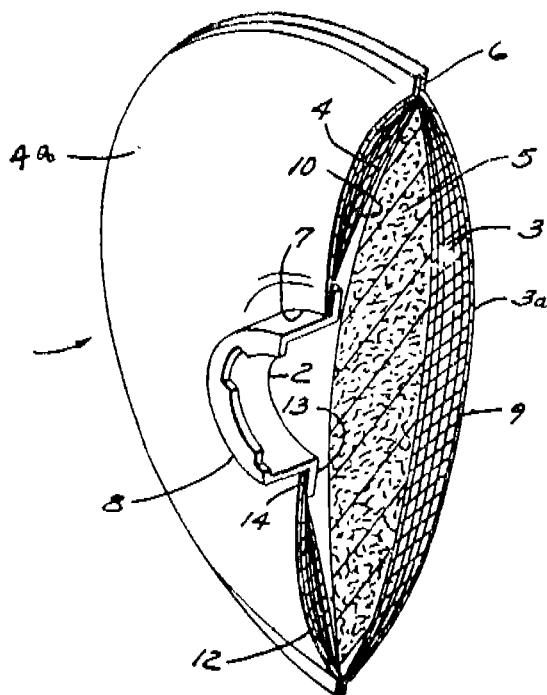
Inventors : (1) GERALD MARVIN BROSTROM
(2) DANIEL ALLAN JAPUNTICH
(3) SABRINA MARIE YARD

Application No. 324/MAS/89 filed April 28, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

37 Claims

A filter element for respirators or face masks comprising (A) substantially coextensive front and rear walls joined to each other along their peripheral edges and defining an interior space between them; the front and rear walls each comprising at least one layer of a filter material, and the rear wall, having said layer of filter material, having an opening that provides access to the interior space defined by the front and rear walls, (B) a porous layer contained between the front and rear walls which is substantially coextensive with the walls, which maintains the walls in a spaced-apart relationship over substantially their entire area, and which contributes no more than 50% of the total pressure drop across the filter element, and (C) a breather tube having one end that communicates through said opening with the interior space between the front and rear walls, and adapted at its other end for securing the filter element to a respirator face piece.



(Comp. Specn. 31 pages;

Drawgs. - 2 sheets)

Ind. Class - 107-G - [GROUP - XLVI(2)]

173536

Int. Cl.⁴ - F 02 B 75/18**AN INTERNAL COMBUSTION ENGINE**

Applicant : INSTITUT FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE, OF 4 AVENUE DE BOIS-PREAU, 92502 RUEIL-MALMAISON, FRANCE.

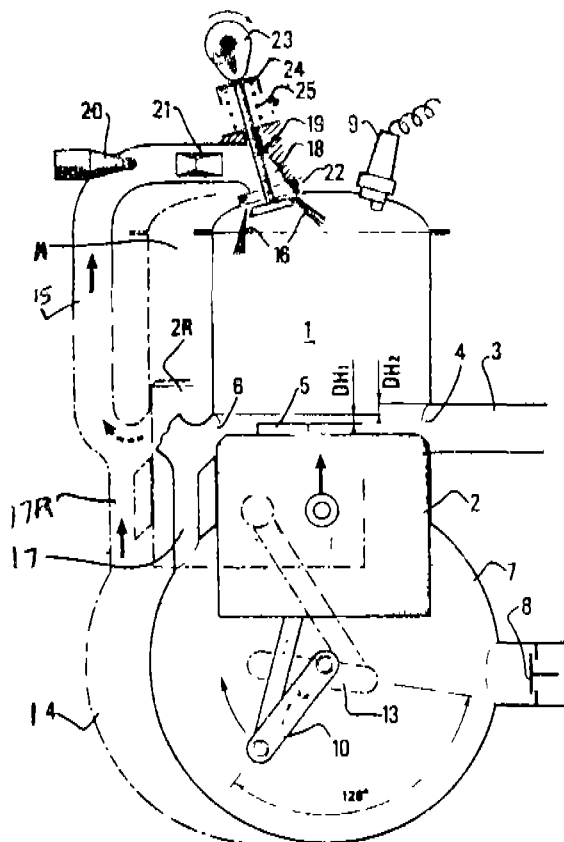
Inventors : (1) JEAN-PIERRE MAISSANT
(2) JEAN-LUC BLANCHARD

Application No. 444/MAS/89 filed June 6, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

24 Claims

An internal combustion engine having a first cylinder (1) into which carburetted mixture can be introduced under pressure comprising at least one other cylinder (11) having a pump crankcase (14) said pump crankcase communicating with said other cylinder (11) via at least one gas transfer port (6R) a connecting duct (15) between said pump crankcase (14) and the said first cylinder (1) an angular non zero shift existing between the cycles of said cylinders the engine further comprising a transfer duct connecting said gas transfer port (6R) with said connecting duct (15) and said gas transfer port (6R) being positioned so that a back-flow occurs therein during a part of the cycle.



(Comp. Specn. - 23 pages;

Drawgs. - 6 sheets)

Ind. Class - 99-E - [GROUP - XL(40)]

173537

1 Claims

Ind. Cl.⁴ - G 01 M 3/00

AN APPARATUS FOR INSPECTING TRANSPARENT CONTAINERS

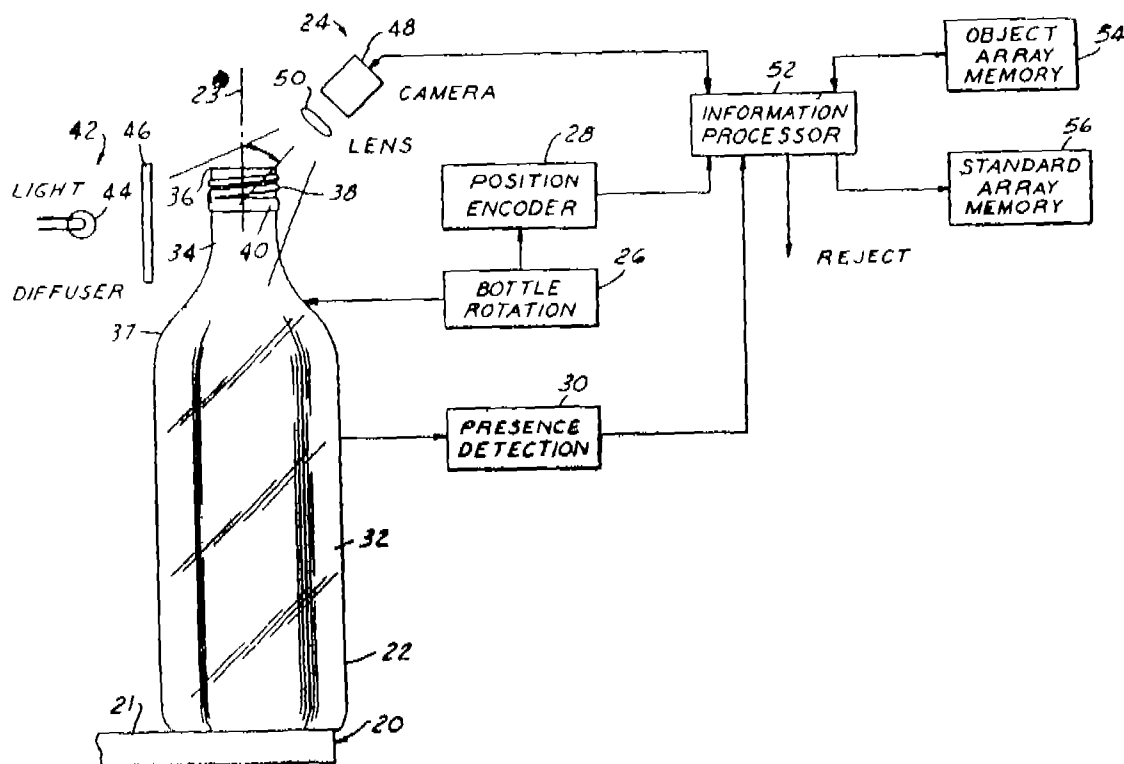
Applicant : OWNES-BROCKWAY CLASS CONTAINER INC., ONE SEAGATE, TOLEDO, OHIO 43666, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE U.S.A.

Inventors : (1) John W. Juninall
(2) ROBERT C. REDMOND

Application No 636/MAS/89 filed on August 24, 1989

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Madras Branch

Apparatus for inspecting transparent containers (22) having a central axis (23) for variations affecting commercial acceptability of such containers, said apparatus comprising means (21, 26) for rotating a container about its central axis, a light source (42) positioned to direct diffused light energy onto a container in said rotating means from a direction lateral to said axis camera means (48c) positioned across said axis from said light source having a field of view which includes portions of wall surfaces of said container in said rotating means, and information processing means (52) responsive to said camera means for obtaining information as a function of optical characteristics of the container, characterized in that said camera means (48c) comprises an image array sensor (110) having a matrix of image sensing elements (112) arranged in a row-and-column array and means (114, 116, 117, 118) on said sensor for selectively reading image data at said sensing elements sequentially by row and column, and in that said image processing means (52) includes means (144) coupled to said selectively-reading means for selectively integrating on said array image data from adjacent elements in said array, and means for reading and storing selectively integrated data output from said array sensor



(Compl. - 24 pages;

Drwgs. - 4 sheets)

Ind. Class - 122 - [GROUP - XXXIII(6)]

173538

22 Claims

Int. Cl.⁴ - B 03 C 7/02

A METHOD OF SEPARATING A SELECTED ORE COMPONENT FROM A PARTICULATE ORE AND A APPARATUS FOR THE SAME.

Applicant : DCRS (BARBADOS) LTD., OF P. O. BOX 306E, ALLEYNE HOUSE, WHITE PARK ROAD, BRIDGETOWN, BARBADOS, BARBADIAN NATIONALITY.

Inventor : ROBERT ROSS BAREFOOT.

Application No. 723/MAS/89 filed on September 28, 1989.

Convention date : October 7, 1988 (No. 8823611.2; Great Britain)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

A method of separating a selected ore component such as hereindescribed from a particulate ore, reduced to a subdivided particle size range sufficient to obtain exposure of the metal and/or mineral content, comprising the steps of :

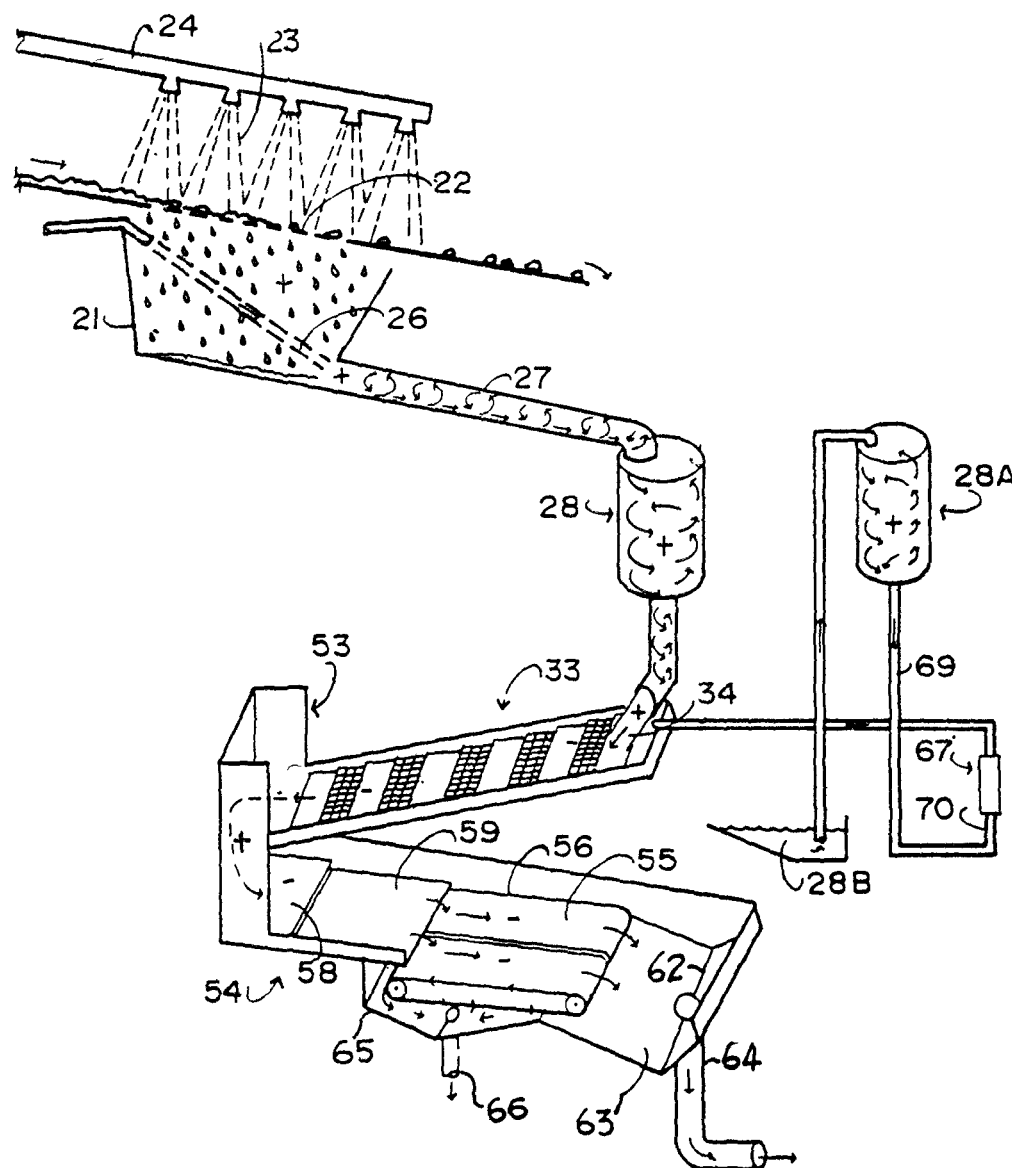
(a) providing a slurry of the said ore in water consisting of water droplets with said particles carried thereby

(b) electrostatically charging the water droplets and the particles carried thereby bypassing them through air at relatively high velocity and along an electrically insulated path in contact with electrically insulated material, sufficient to induce a positive charge in said droplets and particles carried thereby and a negative charge in said electrically insulated material, by stripping off electrons whereby

the most conductive components of said particles attract and retain the bulk of the electrostatic charge of the droplets, said ore particles accepting said electrostatic charge differentially when mineral and/or metal constituents thereof have different electrical conductivities and specific gravities and hence can be separated individually principally by the differential conductivities and to a lesser extent, by gravity.

(c) capturing components of the slurry by passing the electrostatically charged slurry through a collector having capturing means therein with an electrostatic charge opposite to the electrostatic charge of said slurry, and

(d) separating from the collector, components of the slurry captured by said capturing means.



(Compl. - 52 pages;

Drwgs. - 14 sheets)

Ind. Class - 172-C - [GROUP - XX]

173539

Int. Cl.⁴ - B 65 H 75/02
75/16

CAN COILER

Applicant : ROSINK GMBH & CO. KG, GNEISENAUS-
TRASSE 8, D-4460 NORDHORN, FEDERAL REPUBLIC
OF GERMANY, A GREEN COMPANY.

Inventor : STENTENBACH, UD.

Application No. 810/MAS/89 filed on November 3, 1989.

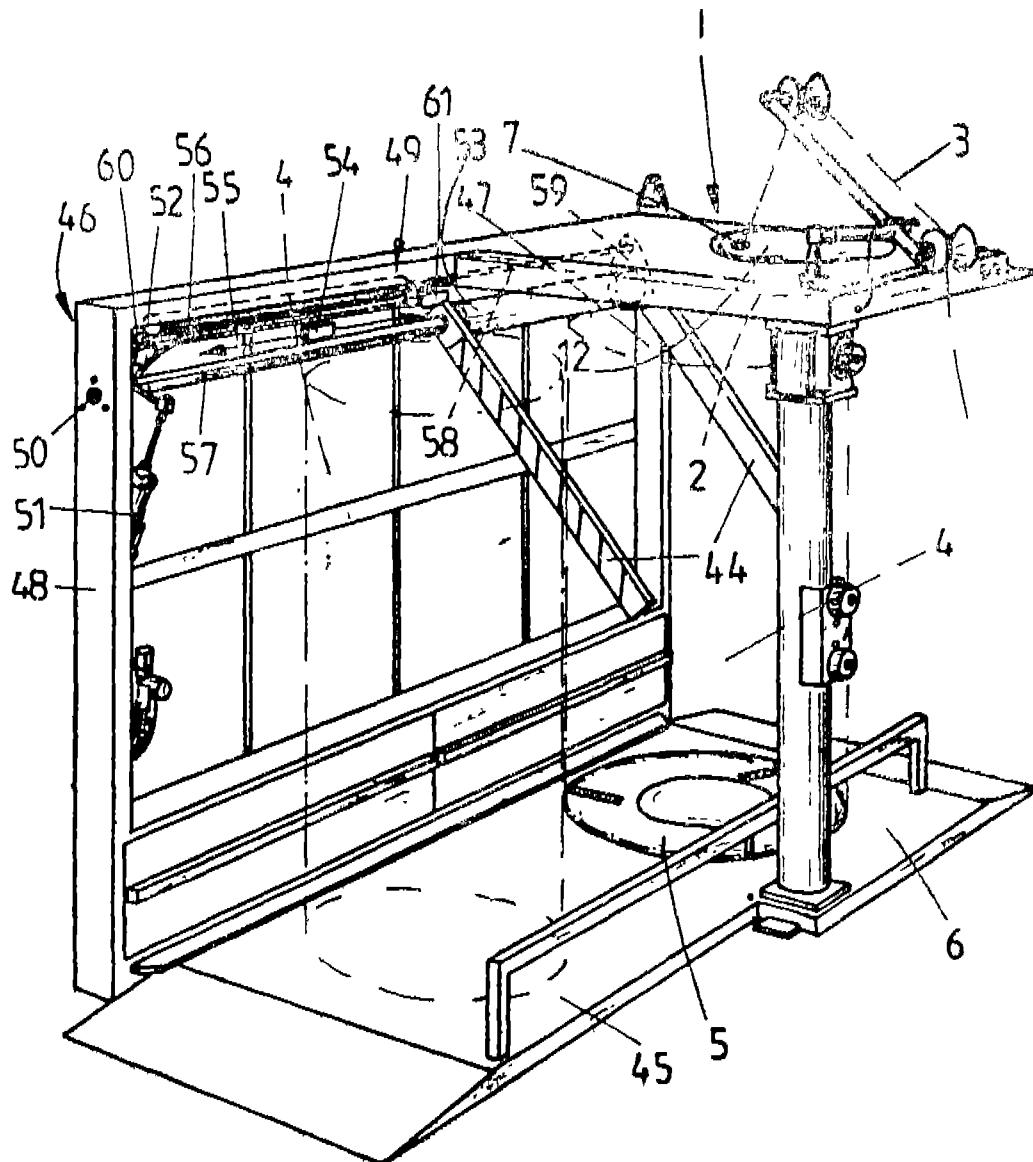
Appropriate office for Opposition Proceedings (Rule 4,
Patents Rules 1972), Patent Office, Madras Branch.

8 Claims

A can coiler (1) comprising a silver outlet channel provided at a rotary plate (2) or rotary ring and rotating along a circular orbit (U) for a sliver (3), with calender rolls (11) for conveying the sliver being arranged ahead of said outlet channel (9), and comprising a stationary sliver cut-off device (TV) having a cut-off member, said cut-off member by means of a drive means (33) being slidably movable into and out of the orbit (U) of said outlet channel transversely to the longitudinal silver extension in a transverse groove (29) of the rotary plate (2), with a cut-off-knife (28) forming said cut-off member, said cut-off knife (28) being pivotable supported at the machine base and for taking its cutting position is movable around a pivot axis into the orbit (U) for pro-

ducing a draw cut, with said cut-off knife (28) in its cutting position extending up to a radial (R) of the orbit (U), which

radial is substantially perpendicularly to the edge (28) of said cut-off knife (28) (angle Alpha)



(Compl. - 21 pages;

Drwgs - 5 sheets)

Ind. Class - 165 - C - [GROUP - LXVI (7)]

173540

10 Claims

Int. Cl⁴ - D 05 B 3/02

ZIG-ZAG SEWING MACHINE

Applicant : MEFINA S A, BOULEVARD DE PEROLLES 5, 1700 FRIBOURG SWITZERLAND, A SWISS COMPANY.

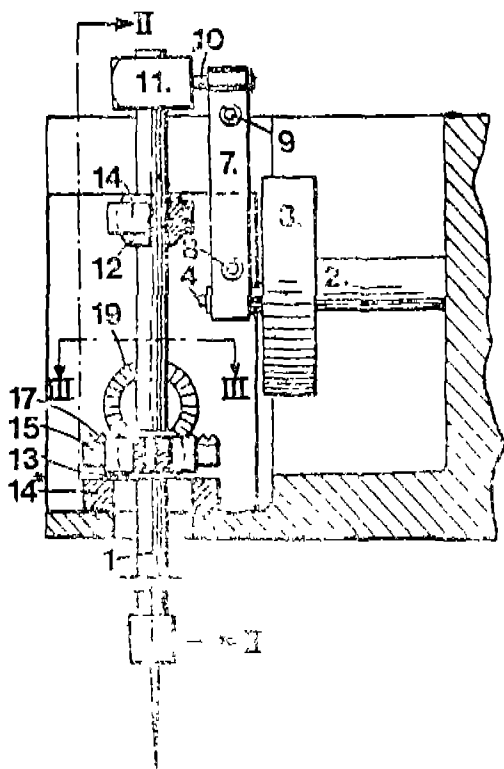
Inventors : (1) ANTONIO JIMENEZ
(2) MICHEL COMBEPINE

Application No 858/MAS/89 filed on November 23, 1989

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

1-87 GI/94

A zig-zag sewing machine with a sewing head comprising an autonomous unit having first and second bearings, each having a passage, a needle bar mounted to slide in said passage of said first and second bearings, a first and second support, a first ball-and-socket joint connecting said first bearing to said first support, a second ball-and-socket joint connecting said second bearing to said second support, means for driving said needle bar in an axial bidirectional movement by sliding in said passages of said bearings, means for guiding said second support along a path transverse to that taken by said needle bar in said axial movement and including means for controlling and limiting displacement of said second support relative to said first support, means having a control motor having a drive shaft operatively engaged with said second support, for driving said second support along said transverse path, in an alternately back-and-forth movement, corresponding to a periodic lateral displacement of the needle bar, and means interconnecting said first and second supports and said control motor so that said supports and said drive shaft are in a predetermined relative disposition.



(Comm. - 24 pages;

Drawgs. - 5 sheets)

Ind. Cl. 35-E, 33-H

173541

Int. Cl. C 04 B 33/00, 35/00, 38/00, 14/00.

"METHOD OF MAKING METAL MATRIX COMPOSITE BODIES"

Applicant : LANXIDE TECHNOLOGY COMPANY, LP, OF TRALEE INDUSTRIAL PARK, NEWARK, DELAWARE 19714-6077, UNITED STATES OF AMERICA.

Inventors : (1) MICHAEL KEVORK AGHAJANIAN,
(2) ALAN SCOTT NAGELBERG,
(3) CHRISTOPHER ROBIN KENNEDY,

Application No. 802/Cal/89; filed on 29th September, 1989.

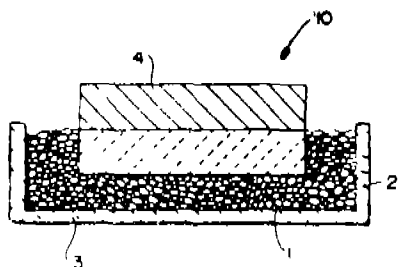
Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

40 Claims.

A method of making a metal matrix composite body comprising :

substantially homogeneously mixing powdered matrix metal such as herein described and a substantially non-reactive filler such as herein described in desired proportions to form a permeable mass; and

bringing the permeable mass into contact with molten matrix metal such as herein described for partial to complete spontaneous infiltration of permeable mass by the molten matrix metal optionally supplying at least one of an infiltration enhancer precursor and an infiltration enhancer to at least one of the molten matrix metal, the filler and the powdered matrix metal.



(Compl. Specn. 36 Pages,

Drawgs. 2 sheets)

Cl : 172 B1

173542

Int. Cl. : F 16M 11/00, F 16M 11/02, F 16M 11/04.

"IMPROVED MACHINE TOOL'S ADAPTER"

Applicant : KRUPP WIDIA GMBH, OF MÜNCHENER STR. 90 D 4300 ESSEN 1, WEST GERMANY.

Inventors : 1. WILHELM JESTER 2. RAINER VON HAAS.

Application No. 854/Cal/89 filed on 17th October, 1989.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta

15 Claims.

An improved machine-tool adapter comprising a machine spindle rotatable about an axis formed with an axially centered forwardly flared large-diameter seat, provided in the seat with at least two axially and radially displaceable spindle jaws, having an axially displaceable actuating rod axially coupled with the jaws, and formed with cam formations engageable with the jaws to move same together on axial rearward displacement;

a tool normal also centered on the axis, and formed with an axially centered rearwardly tapered small-diameter stem substantially smaller than the seat and an adapter comprising;

an adapter body normally centered on the axis and formed with a forwardly open small-diameter adapter seat complementary with the tool stem;

a rearwardly projecting adapter stem snugly receivable in the large-diameter seat of the spindle, a flange flatly engageable with the front end of the spindle when the stem is in the spindle seat, and at least one rearwardly projecting tongue having a radially deflectable rear and engageable between a respective one of the jaws and the spindle when the stem is in the spindle seat to process the one jaw radially inward;

a connector rod axially limitedly displaceable in the adapter body between a front position and a rear position and having a rear end formed as a head engageable by the jaws;

at least one locking member engageable between the rod and the tool stem to lock the tool in the adapter seat when the connector rod is in the rear position.

(Compl. Specn. 17 Pages,

Drawgs. 3 sheets)

Cl : 39

173543

Int. Cl. : C 01 B 35/08, 35/14

"AN HP/HT PROCESS FOR MAKING POLYCRYSTALLINE CUBIC BORON NITRIDE FROM GRAPHITIC BORON NITRIDE AND THE PRODUCT THEREBY PRODUCED"

Applicant : GENERAL ELECTRIC COMPANY, A CORPORATION OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF 1 RIVER ROAD SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventor : FRANCIS RAYMOND CORRIGAN.

Application No. 923/Cal/89 filed on 7th November, 1990

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Calcutta.

11 Claims.

A high pressure/high temperature (HP/HT) process for making polycrystalline cubic boron nitride (PCBN) from graphitic boron nitride (CBN) in the substantial absence of bulk catalytically active material, wherein the improvement in modulating the HP/HT conditions comprises :

doping said CBN with not above 50 weight-% nonboron nitride (non BN) atoms such as herein described or clusters

thereof, an amount thereof being incorporated into the CBN lattice for at least lowering the HP required for making said polycrystalline CBN in the absence of said atoms or clusters thereof, the proportion of said non-BN atoms or clusters ranging from between 0.1 and 50 percent by weight.

Compl. Specn. 12 Pages.

Drwgs. Nil

Cl. 126 C

173544

Int. Cl.⁴: G01R 21 133.

"AN ELECTRONIC WATTHOUR METER FOR MEETING THE CONSUMPTION OF ELECTRICAL ENERGY IN POLYPHASE POWER LINES"

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVIER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : (1) WARREN RALPH GEKMER, (2) MAURICE JOSEPH OUELLETIE AND (3) MEHRDAD NEGAHBAN-HAGH.

Application No. 966/Cal/89 filed on 21st November, 1989.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

24 claims

An electronic watthour meter for metering the consumption of electrical energy in polyphase power lines, comprising;

a first analog to digital converter for providing a first digital signal in response to current flow in each line of said power lines;

a second analog to digital converter for providing a second digital signal in response to voltage applied to each of said power lines;

a multiplier for multiplying said first digital signal to derive an indication of electrical energy consumption on said power lines, and first compensation means for providing a first timing signal to said first analog to digital converter and a second timing signal to said second analog to digital converter;

said first compensation means comprising phase shifting means for lead or lag phase errors by shifting the direction and amount of timing of said first timing signal relative to that of said second timing signal, to provide said first and second digital signals to said multiplier substantially in time phase for all current and voltage phases of said polyphase power lines through use of a single adjustment; and

additional compensation means providing insensitivity of said electronic watthour meter to power line frequency variations; whereby phase compensation is provided for phase differences in the power line and in the watthour meter circuitry and additional compensation is provided for power line frequency variations.

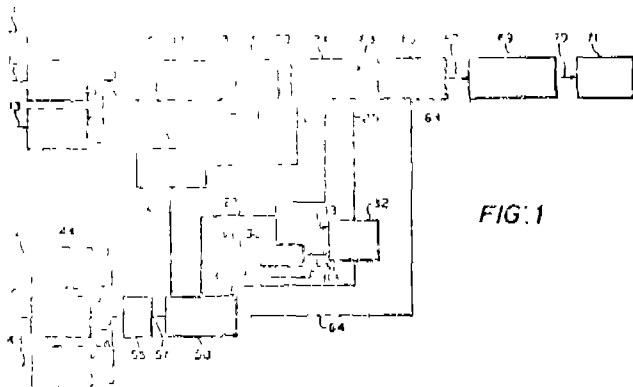


FIG. 1

Compl. Specn. 31 Pages.

Drwgs. 3 sheets.

Cl. 146 C.

173545

Int : Cl. G 01 N. 9/36.

"A CAPACITANCE MOISTURE SENSOR PROBE FOR SENSING THE MOISTURE CONTENT OF SOIL"

Applicant : TROXLER ELECTRONIC LABORATORIES, INC., 3008 CORNWALLIS ROAD, RESEARCH TRIANGLE PARK, NORTH CAROLINA 27709, U.S.A.

Inventors : MICHAEL RAP DISHMAN.

Application No. 27/Cal/90 filed on 8th January, 1990.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Calcutta.

18 claims.

A capacitance moisture sensor probe for sensing the moisture content of soil, the moisture sensor probe comprising;

a generally cylindrical body having first and second opposite ends;

a tapered surface portion along the body between said first and second ends which tapers down in the direction from said second end to said first end;

means defining a first electrode at a first location along said tapered surface portion of said body;

means defining a second electrode at a second location along said tapered surface portion of said body longitudinally spaced from said first electrode; and

dielectric means extending between and dielectrically separating said first and second electrodes so that the probe senses the capacitance of soil in the proximity of the first and second electrodes.

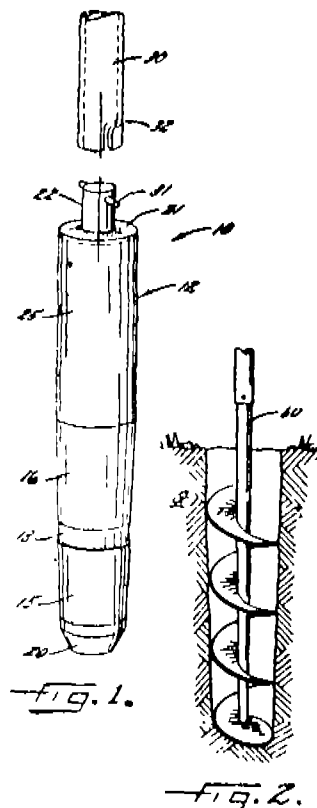


FIG. 1.

FIG. 2.

Compl. Specn. 34 pages.

Drwgs. 1 sheet.

Cl : 39 K

173546

Int. Cl.⁴ : 01 B 17/88

"PROCESS OF CONCENTRATING A LIQUID WHICH CONTAINS SULFURIC ACID AND WATER"

Applicant : METALIGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-6000, FRANKFURT AM MAIN, WEST GERMANY, A WEST GERMAN COMPANY.

Inventors : (1) HOHMANN KLAUS (2) DITTMAR HEINZ (3) SERRANO-VELARDE RAMIRO.

Application No. 265/Cal/90 filed on 30th March, 1990.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for concentrating sulfuric acid diluted with water and in which the concentration of H_2SO_4 calculated without solids is about 15 to 30% by weight characterised in that the liquid is circulated in a first heated processing stage at highest temperatures of 50 to 70°C through a first heat exchange zone, which is indirectly heated with watervapor, and through a first evaporating zone vapors and a liquid stream which contains sulfuric acid, water and dissolved salts and has an H_2O content of about 25 to 40% by weight, calculated without solids, are separately withdrawn from the first evaporating zone and fed to a second heated processing stage, the liquid is circulated in the second heated processing stage at highest temperatures of 130 to 160°C and under a pressure which is higher than in the first processing stage in at least one circuit through at least one heat exchange zone, which is heated with live steam, and through at least one evaporating zone, the vapors from the evaporating zone or zones are fed to the first heat exchange zone as a heating fluid, partly concentrated liquid having an H_2O content of 55 to 70% by weight, calculated without solids, is withdrawn from an evaporating zone of the second processing stage and is fed to a flashing zone, in which the liquid is flashed with a reduction of the temperature of the liquid to a value which is lower by 20 to 70°C than the highest temperature in the second processing stage and concentrated liquid having an H_2SO_4 content of 60 to 80% by weight, calculated without solids, is withdrawn from the flashing zone.

Fig.1

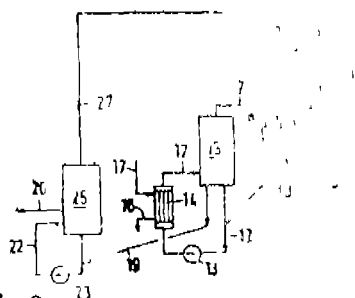
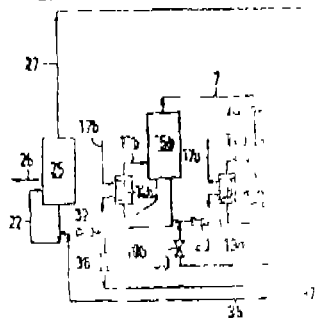


Fig.2



Compl. Specn. 16 Pages.

Drgn. 1 Sheet

Cl : 50 B.

173547

Int. Cl. 4 F 25D 17/08.

"FILL PACK FOR HEAT AND MASS TRANSFER"

Applicant : MUNTERS EUROFORM GMBH OF SUSTERFELDSTRASSE 65,5100 AACHEN, FEDERAL REPUBLIC OF GERMANY.

Inventor : MARTIN SCHULTZ.

Application No. 771/Cal/90 filed on 7th September, 1990.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

8 claims

A fill pack for heat and mass transfer in counterflow, in particular for the cooling or water in cooling towers by means of air, said fill pack comprising a plurality of generally vertically obliquely positioned folded sheets which are superposed and joined to each other such that the folds of adjoining sheets cross each other wherein the folds of adjoining sheets cross each other only in the upper part of the fill pack and are generally parallel to each other in the lower part thereof, so that the velocity of the water being discharged is increased which thereby increases the self-cleaning effect.

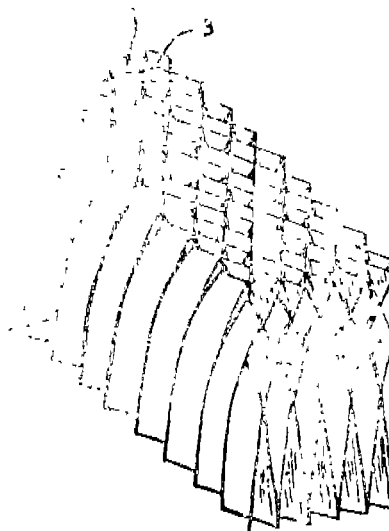


Fig. 1

Compl. Specn. 12 pages.

Drgn. 2 sheets.

Cl. 28 C. E.

173548

Int : Cl. F 23 B 1/00,
C 23 C 1/00, 5/00,
F 23 D 14/00.

"A GAS ELEMENT FOR A BURNER"

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor : ALBERT DANIEL LARUE.

Application No. 730/Cal/92; filed on 12th October, 1992.
(Divided out of No. 215/Cal/89; antedated 16-3-1989)

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

3 claims

A gas element for a burner, comprising :
a body section having a longitudinal axis;
a hemispherical outlet end, attached to said body section and sharing the longitudinal axis with said body section and having :

(a) several stabilizing holes E equally spaced around the body section, located with their longitudinal axes at an angle gamma with respect to the longitudinal axis of the gas element;

(b) two subholes F located adjacent each other on one side of the body section of the gas element, both subholes F having their longitudinal axes perpendicular to the longitudinal axis of the gas element and lying in a first common plane defined by these three axes;

(c) a main hold G located on the hemispherical outlet end of the gas element with the longitudinal axis thereof at an angle alpha with respect to the longitudinal axis of the gas element, angle alpha lying in a range of approximately 35° to approximately 50° ; and

(d) a reburning hole H located adjacent said main hole G and at an angle beta with respect to the longitudinal axis of the gas element, angle beta being less than angle alpha and lying in a range from 0° to approximately 15° , the longitudinal axes of said main hole G and said reburning hole H intersecting at a point P near the longitudinal axis of the gas element and lying in a second common plane which contains the longitudinal axis of the gas element, said second common plane being perpendicular to said first common plane.

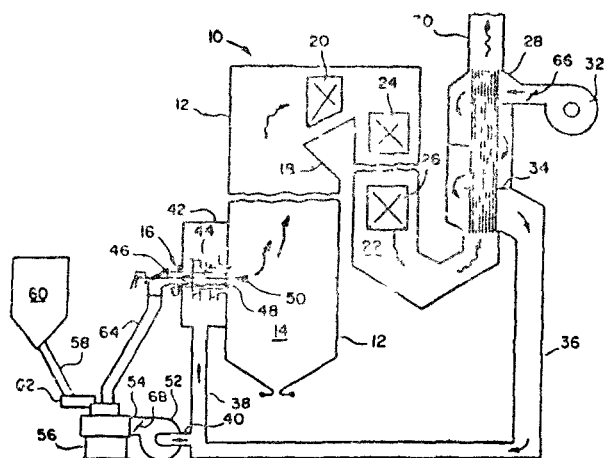
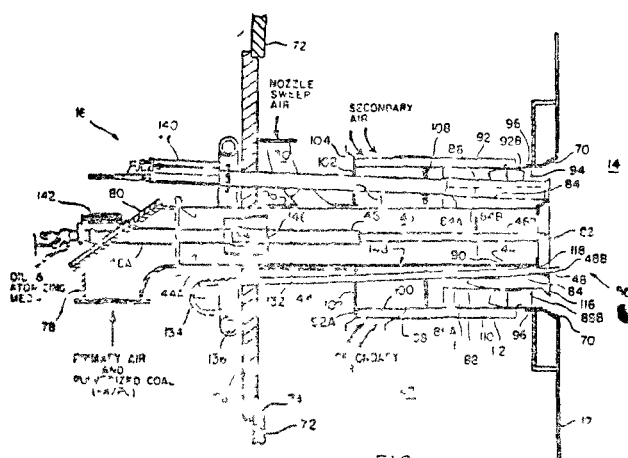


FIG 2



Cl : 28-C, E.

173549

Int. Cl.: F 23 D 1/00, F 23 D 14/00,
C 23 C 1/00, 5/00.

"BURNER FOR THE COMBUSTION OF COAL OR GAS".

Applicant : THE BABCOCK & WILCOX COMPANY
OF 1010 COMMON STREET, P. O. BOX 60035, NEW
ORLEANS, LOUISIANA 70160, UNITED STATES OF
AMERICA.

Inventor : ALBERT DANIEL LARUE.

Application No. 731/Cal/92; filed on 12th October, 1992.
(Divided out of No. 215/Cal/89; antedated 16-3-1989)

Appropriate office for opposition Proceedings (Rule 4,
Patent Rules 1972) Patent Office, Calcutta.

3 claims.

A burner for combustion of coal of gas, comprising :

a tubular burner nozzle having an inlet end and an outlet end and which defines a central passageway for conveying primary air containing pulverized coal particles therethrough to an outlet end of the burner;

a gas zone sleeve having an inlet end and an outlet end concentrically arranged around the tubular burner nozzle and partially defining an annular enclosure therebetween;

an inner zone sleeve having an inlet end and an outlet end concentrically arranged around the gas zone sleeve and defining an inner annular passageway therebetween, for conveying a first portion of secondary air need for combustion to the outlet end of the burner;

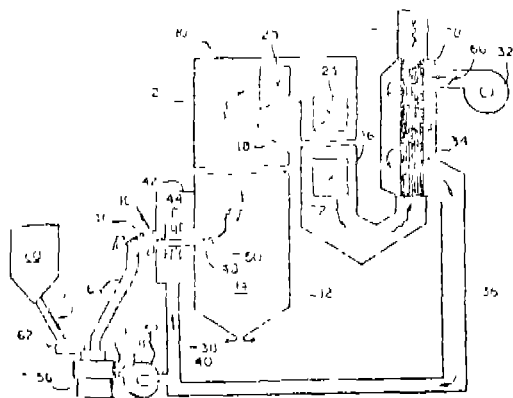
a burner barrel having an inlet end and an outlet end, concentrically arranged around the inner zone sleeve and defining an outer annular passageway therebetween, for conveying a second portion of secondary air need for combustion to the outlet end of the burner;

an air separation vane, connected to and extending outwardly and circumferentially around the outlet end of the inner zone sleeve, for influencing the path of the first portion of secondary air as it exits from the burner;

a plurality of retractable and rotatable gas elements, concentrically arranged around the tubular burner nozzle and extending through the annular enclosure, for conveying gas to the outlet end of the burner, having outlet ends located in close proximity to the outlet end of the tubular burner nozzle, and being shielded from the secondary air when fully inserted into the burner by :

a flame stabilizing ring, attached to the outlet end of the tubular burner nozzle and which together with the tubular burner nozzle and the gas zone sleeve defines the annular enclosure therebetween, having a first portion circumferentially extending into the central passageway to define an opening therein, a second L-shaped portion attached to the first portion of the flame stabilizing ring extending circumferentially around, and outwardly from the outlet end of the tubular burner nozzle, and having a plurality

of openings adapted to closely receive therethrough each of the plurality of retractable gas elements.



2 claims.

A flame stabilizing ring for a burner having a plurality of gas elements concentrically arranged around and in close proximity to a tubular burner nozzle having central passageway and outlet end, and at least one annular passageway concentrically arranged around the plurality of gas elements for transporting a quantity of air to an outlet end of the burner for combustion, comprising :

a first portion, attached to the outlet end of the tubular burner nozzle and circumferentially extending into the central passageway to define an opening therein; and a second, L-shaped portion attached to the first portion of the flame stabilizing ring extending circumferentially around and outwardly from the outlet end of the tubular burner nozzle, having a plurality of openings adapted to closely receive therethrough each of the plurality of gas elements, such that outlet ends of each of the plurality of gas elements is shielded from the quantity of air for combustion transported by the at least one annular passageway.

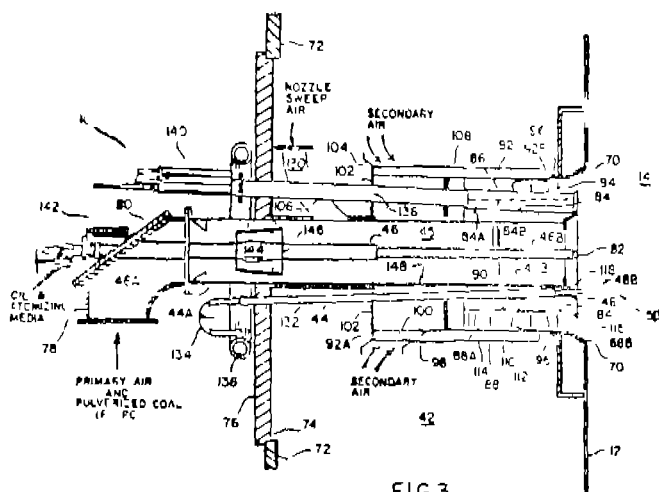


FIG. 3

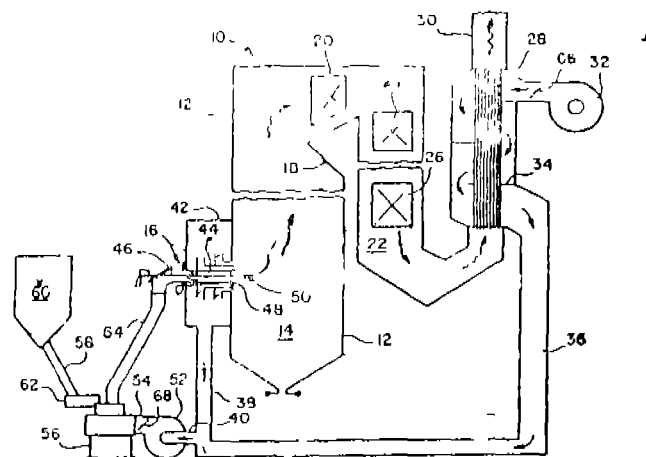


FIG. 2

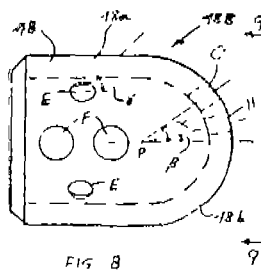


FIG. 4

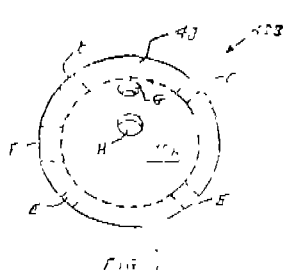


FIG. 5

Compl specn. 34 pages

Drngs. 5 sheets.

Cl : 28 C.E.

173550.

Int. Cl F 23 B 1/00,

F 23 C 1/00, 5/00,

F 23 D 14/00.

"A FLAME STABILIZING RING FOR A BURNER."

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor : ALBERT DANIEL LARUE.

Application No. 732/Cal/92; filed on 12th October, 1992. (Divided out of No. 215/Cal/89; antedated 16-3-1989).

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

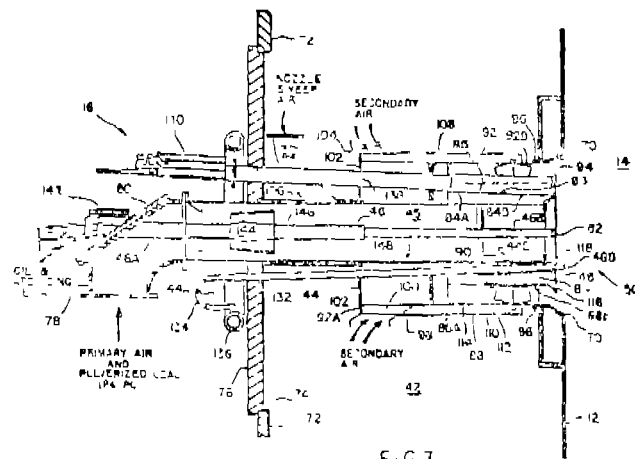
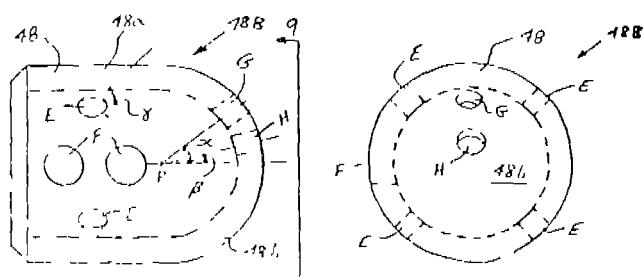


FIG. 6



Compl. specn. 32 pages

Drngs. 5 sheets.

PATENT SEALED ON 29-04-1994

172181 172182 172183* 172184 172185 172187 172188
172190 172191* 172192* 172193* 172195 172196* 172197
172198* 172199 172201 172204 172205* 172207*D
172208*D.

CAL—00, MAS—13, BOM—00 & DEL—08.

*Patent shall be deemed to be endorsed with the words LICENCE OF RIGHT Under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D—DRUG Patent, F—FOOD Patent

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that AMPEX CORPORATION, of 401 Broadway, MS-3-35, Redwood City, California 94063-3199, U.S.A. have made an application under Section 57 of Patents Act, 1970, for amendment of application and specification of their application for Patent No. 56/MAS/91 (173380) for A MAGNETIC SIGNAL PROCESSING APPARATUS. The amendments are by way of correction. The application for amendments and the proceed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on the prescribed Form-30 within 3 months from the date of the Notification at the Patent Office Branch, Madras-2. If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

RENEWAL FEES PAID

152949 153702 154159 155580 156017 156110 156511 156618
156626 157095 157131 157380 157655 158419 158723 159036
159149 159224 159226 159512 159662 160223 160611 160992
161049 161114 161173 161301 161478 161589 161691 161696
162348 162519 162867 163048 163075 163118 163484 163656
163697 163966 163995 164132 164243 164533 164697 164884
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166155 166328 166542 166547 166673 166865 166929 166934
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167468 167605 167778 167781 168095 168326 168713 168777
168885 168919 169005 169031 169151 169224 169291 169428
169621 169739 169984 170158 170183 170237 170251 170283
170311 170397 170479 170535 170598 170726 170798 170813
170848 170960 171027 171086 171156 171183 171294 171324
171330 171699 171865 171866 171916 171917 171947 171976
171978 172007 172009 172056.

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 161668 dated the 5th March 1985 made by Nestle India Limited on the 3rd February 1993 and notified in the Gazette of India Part III, Section 2, dated the 7th August, 1993 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 161390 dated the 15th November 1983 made by Asahi Kasei Kogyo Kabushi Kaisha on the 12th November 1993 and notified in the Gazette of India, Part III, Section 2, dated the 19th January, 1994 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 164061 dated the 21st October, 1985 made by Shrish Shantilal Pandya on the 30th September 1993 and notified in the Gazette of India, Part III, Section 2, dated the 25th December, 1993 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 168466 dated the 16th September, 1986 made by Elevator GmbH on the 16th September 1993 and notified in the Gazette of India, Part III, Section 2, dated the 20th November, 1993 has been allowed and the said patent restored.

Name Index of Application for Patents in respect of Patent Office Calcutta & its branches for the month of January 1993 to June 1993 (Nos 1/Cal 93 to 376/Cal/93, 1/Bom/93 to 212/Bom/93, 1/Mas/93 to 448/Mas/93 and 1/Del/93 to 678/Del/93)

CALCUTTA

(1/Cal/93 to 376/Cal 93)

Name and Application No.

—A—

ABB Henschel Waggon Union GmbH.—97/Cal/93.
ABB Lummus Crest Inc.—319/Cal/93.
A. Menarini Industrie Farmaceutiche Ruinite S.r.l.—212/Cal/93.
Acma Ltd.—91/Cal/93.
Aldokimov, A.S.—1/Cal/93.
Aldokimov, I.A.—1/Cal/93.
Aldokimov, V.A.—1/Cal/93.
Alloy rods Global, Inc.—241/Cal/93.
Aluminium Pechiney.—31/Cal/93.
Ambasz, E.—341/Cal/93.
American Cyanamid Co.—182/Cal/93, 183/Cal/93 and 238/Cal/93.
American Home Products Corporation.—58/Cal/93, 59/Cal/93 and 60/Cal/93.
Arizona Board of Regents on Behalf of the University of Arizona, The.—251/Cal/93.
Asta Medica Aktiengesellschaft.—45/Cal/93, 306/Cal/93 and 359/Cal/93.
Astucia-Sociedade De Desenvolvimento De Patentes, LDA.—345/Cal/93.
Ausimont S.r.l.—250/Cal/93.

—B—

BTR Plc.—14/Cal/93 & 156/93.
B.V. Optische Industrie "De Oude Delfts".—187/Cal/93.
Babcock & Wilcox Co., The.—18/Cal/93, 69/Cal/93, 267/Cal/93 and 301/Cal/93.
Bandopadhyay, D.—304/Cal/93.
Banerjee, S.K.—144/Cal/93.
Barthakur, S.—171/Cal/93.
Baylor College of Medicine.—210/Cal/93.
Bekum Maschinenfabriken GmbH.—308/Cal/93.
Bend Research Inc.—213/Cal/93.
Bhattacharya, R.N.—171/Cal/93.
Bina Metal Way Pvt. Ltd.—173/Cal/93.
Bradnock, B.R.D.P.—120/Cal/93 and 122/Cal/93.
Brown, N.D.—339/Cal/93.
Building Solutions Pty. Ltd.—175/Cal/93.
Burg, D.E.—3/Cal/93.
Burgess, H.I.—2/Cal/93.

—C—

C.V.G. Siderurgica Del Orinoco C.A.—133/Cal/93.
Caroma Industries Ltd.—159/Cal/93.
Cenefill Pty. Ltd.—180/Cal/93.
Chakraborty, I. (Sri)—24/Cal/93.
Chakraborty, R.—111/Cal/93.
Chandrakumar, A.R.—98/Cal/93.
Chatterjee, A. (Dr.)—160/Cal/93.
Chatterjee, D.—185/Cal/93.
Chatterjee, S.—185/Cal/93.
Ching, C.—197/Cal/93.
Chuan, C.F.—146/Cal/93.

Clear Cut Ltd.—322/Cal 93.
 Coachline Video Express Pty. Ltd.—216/Cal/93.
 Coca-Cola Co., The—363/Cal/93.
 Cohen, H.—354/Cal/93.
 Commonwealth of Australia, The—284/Cal/93 and 285/Cal/93.
 Commonwealth Scientific and Industrial Research Organisation—22/Cal 93 and 62/Cal/93.
 Comvik GSM AB.—204/Cal/93 and 205/Cal/93.
 Concast Standard AG.—99/Cal/93.
 Conoco Inc.—291/Cal/93.
 Crystal Technology, Inc.—239/Cal/93.

—D—

DIPL.—ING. Dr. Ernst Vogelsang GMBH & Co. KG.—305/Cal/93 and 336/Cal/93.
 Das. K.N.—219/Cal/93 & 224/Cal/93.
 Daw Technologies, Inc.—279/Cal/93.
 Degussa Aktiengesellschaft.—82/Cal/93, 96/Cal/93, 161/Cal/93 and 202/Cal/93.
 Deutsch Co., The—330/Cal/93.
 Diablo Research Corporation—278/Cal/93.
 Discovery Chemicals, Inc.—230/Cal/93.
 Dow Corning Enterprises, Inc.—180/Cal/93.
 Dunlop Ltd.—57/Cal 93.
 Du Pont Canada Inc.—54/Cal/93.
 Dutta, D.—294/Cal/93.
 Dyckerhoff & Widmann Aktiengesellschaft—311/Cal/93.

—E—

E.I. Du Pont De Nemours and Co.—80/Cal/93, 123/Cal/93, 208/Cal/93, 352/Cal/93 and 358/Cal/93.
 Eaton Corporation—268/Cal/93, 335/Cal/93, 338/Cal/93 and 349/Cal/93.
 Elililly & Co.—196/Cal/93, 231/Cal/93 and 344/Cal/93.
 Elpatronic AG.—261/Cal/93.
 Emag-Maschinen Vertriebs-Und Service GmbH.—207/Cal/93.
 Emerson Electric Co.—53/Cal/93.
 Emitec Gesellschaft Fur Emissionstechnologie. mbh.—114/Cal/93, 188/Cal/93, 299/Cal/93 and 357/Cal/93.
 Engelhard Corporation—169/Cal/93.
 Erema Engineering Recycling Maschinen Und Anlagen Gesellschaft m.b.H.—167/Cal/93 and 253/Cal/93.
 Essels Tea Exports Ltd.—93/Cal/93.
 Ethicon, Inc.—66/Cal/93 and 67/Cal/93.

—F—

Felten & Guillaume Austria AG.—374/Cal/93.
 Fiberweb North America, Inc.—296/Cal/93 and 328/Cal/93.
 Fina Technology, Inc.—367/Cal/93.
 Fintube Limited Partnership—373/Cal/93.
 Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H.—178/Cal 93 and 215/Cal/93.
 Frigoscandia Food Process Systems, AB.—88/Cal/93.

—G—

Garg T.—176/Cal/93 and 295/Cal/93.
 Geda International S.A.—172/Cal/93.
 Geller A.—259/Cal/93.
 General Electric Co.—134/Cal/93, 145/Cal/93, 136/Cal/93, 141/Cal/93, 271/Cal/93, 290/Cal/93 and 364/Cal/93.
 General Surgical Innovations, Inc.—300/Cal/93.
 Gensci Ltd.—55/Cal/93.
 Ghose, C. (Smt.)—12/Cal/93.
 Ghose, P.K. (Sri)—12/Cal/93.
 Ghose, S. (Sri)—12/Cal/93.
 Glenavre Electronics, Inc.—11/Cal/93 and 158/Cal/93.
 Goodricke Group Ltd. M/s.—35/93 and 329/Cal/93.

Great Lakes Chemical Corporation—353/Cal 93.
 Griffin Corporation—140/Cal/93.
 Gupta, D.D.—84/Cal/93.

—H—

Hamatech Halbleiter-Maschinenbau Und Technologie GmbH.—317/Cal/93.
 Hansen, B.—17/Cal 93.
 Hans Oetiker Ag Maschinen-Und Apparatefabrik—281/Cal/93.
 Hari Machines Ltd.—303/Cal/93.
 Heiliger, R.W.—256/Cal/93.
 Himont Incorporated—33/Cal/93, 50/Cal/93, 78/Cal/93, 92/Cal/93 and 138/Cal/93.
 Hitachi Construction Machinery Co. Ltd.—89/Cal/93, 117/Cal/93 and 252/Cal/93.
 Hitachi, Ltd.—4/Cal/93, 77/Cal/93, 129/Cal/93, 142/Cal/93 and 266/Cal/93.
 Hitek Fine Chemicals Pvt. Ltd.—309/Cal/93.
 Hoechst Aktiengesellschaft—40/Cal/93, 41/Cal/93, 47/Cal/93, 177/Cal/93, 226/Cal/93, 234/Cal/93, 297/Cal/93, 298/Cal/93, 314/Cal/93, 315/Cal/93, 337/Cal/93 and 347/Cal/93.
 Hoechst Celanese Corporation—81/Cal 93, 118/Cal/93, 119/Cal/93, 184/Cal/93 and 206/Cal/93.
 Hoechst Mitsubishi Kasei Co. Ltd.—148/Cal/93.
 Hoeganaes Corporation—277/Cal/93.
 Hoganas AB.—288/Cal/93 and 289/Cal/93.
 Hoof, E.V.—348/Cal/93.
 Hoppe AG.—313/Cal/93.
 Hossain, M.M.—155/Cal/93.
 Hoveck, R.H.—86/Cal/93 and 186/Cal/93.
 Hsien, C.C.—217/Cal/93.
 Huang, Y.T.—28/Cal/93.
 Hydro-Quebec—109/Cal/93 and 350/Cal/93.

—I—

ICI India Ltd.—36/Cal/93 and 237/Cal/93.
 IRCA S.P.A.—48/Cal/93 and 331/Cal/93.
 Indian Institute of Chemical Biology—128/Cal/93.
 Indian Jute Industries Research Association—168/Cal/93.
 Innotech, Inc.—179/Cal/93.
 Innovata Biomed Ltd.—110/Cal/93.
 J.M. Voith GmbH.—327/Cal/93.
 Jain, M.K.—245/Cal/93.
 Jana, N. (Dr)—249/Cal/93 and 263/Cal/93.
 Johnssen, W. (Dr)—116/Cal/93.
 Jones, A.M.—366/Cal/93.
 Jung, M.K.—217/Cal/93.
 Jyoti & Jwala—74/Cal/93.

—K—

K-Tron Technologies, Inc.—242/Cal/93.
 Kabelmetal Electro Gesellschaft Mit Beschränkter Haftung—258/Cal/93.
 Kafley, O.C.—190/Cal/93.
 Kant, C.P.—127/Cal/93.
 Kar, A.K. (Dr)—8/Cal/93.
 Kavi, A.B.—71/Cal/93.
 Keravision Inc.—20/Cal/93 and 203/Cal/93.
 Kerr-Mcgee Chemical Corporation—181/Cal/93.
 Kokta, B.V.—63/Cal/93.
 Koninklijke Emballage Industrie Van leer B.V.—38/Cal/93.
 Kortec Ag.—292/Cal/93.
 Krishna, N.V.S.—219/Cal/93 and 224/Cal/93.
 Krone Aktiengesellschaft—26/Cal/93, 70/Cal/93 and 132/Cal/93.
 Krupp Vdm GmbH.—150/Cal/93 and 163/Cal/93.

—L—

Laboratori Guidotti S.P.A.—212/Cal/93.
 Laboratorios Dalmer Sa.—198 Cal/93.
 Lechler GmbH. & Co. KG.—260/Cal/93.
 Lee, M.H.—293/Cal 93.
 Licinvest Ag.—248/Cal/93.
 Liftsonic Ltd.—13 Cal/93.
 Lucky Ltd.—21/Cal/93 and 371/Cal 93.
 Lunam Radiation, Inc.—5/Cal/93.
 Lung, M. Y.—197/Cal/93.

—M—

MWB High Voltage Systems GmbH.—106 Cal/93.
 Mahajan, A.S.—25/Cal/93.
 Malesci-Instituto Farmacobiologico S.P.A.—212/Cal 93.
 Mallick, K. (Sri)—39/Cal/93.
 Marasco, J.M.—339 Cal/93.
 Mathur, P.—191/Cal/93.
 Mauser Werke GmbH.—90/Cal/93.
 Max-Planck gesellschaft Zur forderung der Wissenschaften
 E.V.—101/Cal/93 and 102 Cal/93.
 Mcneil-Ppc., Inc.—346/Cal 93.
 Mead Corporation, The—254/Cal/93 and 280/Cal/93.
 Med-Plastic Ag.—282/Cal 93.
 Melchior, J.F.—312/Cal/93.
 Memminger-Iro GmbH.—105 Cal/93.
 Merck Patent Gesellschaft mit baschrunkter Haftung—44/
 Cal/93 and 170/Cal 93.
 Metallgesellschaft Aktiengesellschaft—16/Cal 93, 125/Cal/93,
 145/Cal/93, 269/Cal/93, 270/Cal/93 and 356/Cal/93.
 Mitchell, J.—162 Cal/93.
 Mitra, S.K.—219/Cal/93 and 224/Cal/93.
 Mitsui Toatsu Chemicals, Incorporated—29 Cal/93.
 Mitutoyo Corporation—361/Cal/93.
 Morpho-Systems—65/Cal 93.
 Mukherjee, C.R.—23/Cal/93 and 325 Cal/93.
 Murty, V.G.K. (Mr)—160/Cal, 93.

—N—

National Dairy Development Board—332/Cal/93 and 333/
 Cal/93.
 Naue-Fasertechnik GmbH & Co. KG.—73/Cal/93.
 Nazir, C.P.—223/Cal/93.
 Nederlandse Organisatie Voor Toegepast-Natuurwetenschap-
 pelijk Onderzoek Tno—376/Cal. 93.
 Neogi, S. K.—15/Cal/93.
 Newar, S.—247/Cal/93.
 New York University—100/Cal/93.
 Neyrpic—274/Cal/93.
 Nilsen, T.—375/Cal/93.
 Nippon Shokubai Co. Ltd.—107/Cal/93.
 Nitrocarbono S. A.—319/Cal/93.
 Normann, E.—375/Cal/93.
 Norpharmco Inc.—94/Cal/93 & 95/Cal/93.
 Norsolor—103/Cal/93.
 Norton Healthcare Ltd.—275/Cal/93.
 Novatech GmbH.—368/Cal/93.

—Q—

Optical & Textile Ltd.—200/Cal/93.
 Ormat Inc.—262/Cal/93.
 Orton, G. A.—154/Cal/93.

—P—

PGP-Industries, Inc.—302/Cal/93.
 PPB Ltd.—236/Cal/93.
 PPV-Verwaltungs-AG.—272/Cal/93, 340/Cal/93, 360/Cal/
 93 and 369/Cal/93.
 Pal, P.—112/Cal/93
 Pamco Inc.—49/Cal/93.
 Panda, N. R. (Sri)—343/Cal/93.
 Pannalal, B. (Dr)—339/Cal/93.
 Patel, A. (Dr) MS.—332/Cal/93 & 333 Cal/93.
 Pattabhi, V.—79/Cal/93 & 222/Cal/93.
 Philips Electronics N. V.—43/Cal/93 & 372/Cal/93.
 Philips Petroleum Co.—34/Cal/93, 220/Cal/93, 221/Cal/93,
 233/Cal/93, 264/Cal/93 & 365/Cal/93.
 Provesta Corporation—180/Cal/93.

—Q—

Quay, S. C.—232/Cal/93.

—R—

RCA Licensing Corporation—157 Cal/93.
 Rai, R. N.—68/Cal/93.
 Rajendran, S. (Mrs)—160/Cal 93.
 Rao, P. V. T.—160/Cal/93.
 Reckitt & Colman of India Ltd.—32/Cal/93 & 124/Cal/93.
 Riffensdal, P. O.—217/Cal/93.
 Rotabolt Ltd.—6/Cal 93.
 Royal Packaging Industries Van Leer B. V.—19/Cal/93.
 Roy, S.—355/Cal/93.

—S—

SKW Trostberg Atiengesellschaft—227/Cal/93.
 Saber Equipment Corporation—211/Cal/93 & 229/Cal/93.
 Samsung Corning Co. Ltd.—276/Cal/93.
 Samsung Electron Devices Co., Ltd.—42/Cal/93.
 Sarkar, S. R. (Sri)—39/Cal/93.
 Sayeed, A. R.—323/Cal/93.
 Sayeed, I.—323/Cal/93.
 Saynal, S.—151/Cal/93.
 Shalimar Industries Ltd.—7/Cal/93.
 Sharma, S.—287/Cal/93.
 Siemens, Aktiengesellschaft—27/Cal/93, 139/Cal/93 201/
 Cal/93, 255/Cal/93, 316/Cal/93 & 326/Cal/93.
 Siemens Solar Industries International, Inc.—310/Cal/93.
 Singh, D. K.—219/Cal/93 & 224/Cal/93.
 Singh, G. (Dr)—218/Cal/93.
 Sinha, H. P.—219/Cal/93 & 224/Cal/93.
 Sonic Compressor Systems, Inc.—228/Cal/93.
 Spectrum Information Technologies, Inc.—192/Cal/93.
 Spherilene S. r. I.—50/Cal/93, 51/Cal/93, 52/Cal/93, 137/
 Cal/93 & 334/Cal/93.
 Spindelfabrik Sussen—195/Cal/93.
 Staedtler & Uhl.—72/Cal/93.
 Stahlecker, F.—113/Cal/93, 149/Cal/93, 193/Cal/93, 194/
 Cal/93, 240/Cal/93, 246/Cal/93 & 324/Cal/93.
 Stahlecker, H.—113/Cal/93, 149/Cal/93, 193/Cal/93, 194/
 Cal/93, 240/Cal/93, 246/Cal/93 & 324/Cal/93.
 Steelsworth Ltd. M/S.—126/Cal/93, 131/Cal/93, 165/Cal/
 93 and 166/Cal/93.
 Sterling International—174/Cal/93.
 Stockham Valve Australia Pty. Ltd.—273/Cal/93.
 Stone & Webster Engineering Corporation—286/Cal/93.
 Stepm Aktiengesellschaft—351/Cal/93.
 Sumitomo Chemical Co. Ltd.—318/Cal/93.
 Sunkyoung Industries Ltd—320/Cal/93 & 321/Cal/93.

—T—

Tata Iron & Steel Co. Ltd.—219/Cal/93 & 224/Cal/93.
 Techlok Ltd.—147/Cal/93.
 Technological Resources Pty. Ltd.—121/Cal/93.
 Thomson Consumer Electronics, Inc.—64/Cal/93, 75/Cal/93,
 85/Cal/93 & 243/Cal/93.
 Thomson Consumer Electronics, S. A.—56/Cal/93.
 Thyse, L. H.—257/Cal/93.
 Thyssen Nordseewerke GmbH.—9/Cal/93.
 Torf Establishment—76/Cal/93.
 Trutan Pty. Ltd.—83/Cal/93.
 Trutzschler GmbH & Co. Kg.—10/Cal/93 & 214/Cal/93.

—U—

Umbro International Ltd.—143/Cal/93.
 Unilever Australia Ltd.—342/Cal/93.
 Unilever Plc.—164/Cal/93.
 Union Carbide India Ltd.—199/Cal/93.
 Union Nationale Des Groupements De Distillateurs D'
 Alcoole (UNGDA)—265/Cal/93.

—V—

Varma, T. N.—219/Cal/93 & 224/Cal/93.
 Veag Vereinigte Energiewerke Aktiengesellschaft—104/Cal/
 93 & 225/Cal/93.
 Vergala International Pty. Ltd.—235/Cal/93.
 Vianova Kunstharz Aktiengesellschaft—244/Cal/93.
 Victor Co. of Japan Ltd.—37/Cal/93.
 Videcart, S. A.—307/Cal/93.
 Vishwakarma, B. P.—370/Cal/93.

—W—

Walter AG.—209/Cal/93.
 Wavin Ag.—283/Cal/93.
 Western States Machine Co., The—362/Cal/93.
 Westinghouse Electric Corporation—115/Cal/93.
 Wilfred, M.—87/Cal/93.
 Witoo Corporation—46/Cal/93.

—Y—

Yokogawa Electric Corporation—61/Cal/93.
 Young, M.J.R.—120/Cal/93 & 122/Cal/93.
 Yung, L. S.—189/Cal/93.

—Z—

Ziggity Systems, Inc.—30/Cal/93.
 Zimpro Passavant Environmental Systems, Inc.—108/Cal/
 93, 152/Cal/93 & 153/Cal/93.

BOMBAY

(01/Bom/93 to 212/Bom/93)

—A—

Ahir, K. L.—129/Bom/93, 130/Bom/93 & 196/Bom/93.
 Ahmedabad Textile Industry's Research Association—162/
 Bom/93.
 Ahmed, K. M.—172/Bom/93.
 Alchemie Research Centre—157/Bom/93.
 Antoorkar, S. B.—82/Bom/93 & 84/Bom/93.
 Armour Chemicals Ltd.—76/Bom/93 & 77/Bom/93.

—B—

Bajaj Auto Ltd.—187/Bom/93.
 Bansod, S. V.—70/Bom/93.
 Bardeskar, K. A. (Mrs)—35/Bom/93.
 Bhabha Atomic Research Centre—171/Bom/93.

Bhad, S. B. (Shri)—149/Bom/93.
 Bhawsar, U. D.—158/Bom/93.
 Bhude, V. V.—4/Bom/93.
 Bhogate, R.—132/Bom/93.
 Bhole, A. G. (Dr)—17/Bom/93 & 70/Bom/93.
 Bhuijee, G. S.—168/Bom/93.
 Bomoay Textile Research Association, The—49/Bom/93.
 Buckau Wolf India Ltd.—81/Bom/93.

—C—

Centre for Development of Advanced Computing—164/
 Bom/93.
 Chaudhary, T. R.—20/Bom/93, 21/Bom/93, 55/Bom/93,
 107/Bom/93, 108/Bom/93, 109/Bom/93, 146/Bom/93
 & 147/Bom/93.
 Chitlapilly, B. F. (Mr)—39/Bom/93.
 Chordia, P. H. (Dr)—110/Bom/93 & 125/Bom/93.
 Choubal, N. J. (Shri)—121/Bom/93.
 Crompton Greaves Ltd.—73/Bom/93.
 Crystal Plastics & Metallizing Pvt. Ltd.—78/Bom/93.

—D—

Dahasahasra, S. V.—70/Bom/93.
 Daruwalla, A. D.—69/Bom/93.
 Das, A. K.—163/Bom/93.
 Desai, P. W.—6/Bom/93.
 Desai, W. G.—6/Bom/93.
 Dharmejwar, P. K.—174/Bom/93.
 Dhingani, M. H.—187/Bom/93.
 Dholaria, D. K. (Mrs)—97/Bom/93.
 Dholaria, S. K. (Km)—97/Bom/93.
 Dholaria, V. K. (Km)—97/Bom/93.
 Dias, F. R.—165/Bom/93.
 Director, The Silk & Art Silk Mills Research Association,
 The—60/Bom/93 & 68/Bom/93.
 Dixit, M. D.—80/Bom/93.

—E—

Eagle Flask Industries Ltd.—75/Bom/93 & 180/Bom/
 93.

—G—

Ganesan, N.—101/Bom/93.
 Ginwalla, A.P.—170/Bom/93.
 Grasim Industries Ltd.—50/Bom/93.
 Greaves Foseco Ltd.—178/Bom/93.

—H—

Hansu Controls Ltd.—52/Bom/93.
 Harchekar, S. (Shri)—37/Bom/93.
 Himmat, G. S.—59/Bom/93.
 Hindustan Antibiotics Ltd.—204/Bom/93.
 Hindustan Lever Ltd.—10/Bom/93, 11/Bom/93, 12/Bom/
 93, 15/Bom/93, 16/Bom/93, 22/Bom/93, 48/Bom/93,
 53/Bom/93, 56/Bom/93, 57/Bom/93, 58/Bom/93,
 63/Bom/93, 64/Bom/93, 83/Bom/93, 85/Bom/93,
 89/Bom/93, 90/Bom/93, 91/Bom/93, 92/Bom/93,
 99/Bom/93, 106/Bom/93, 112/Bom/93, 113/Bom/93,
 126/Bom/93, 127/Bom/93, 128/Bom/93, 137/Bom/93,
 138/Bom/93, 150/Bom/93, 151/Bom/93, 159/Bom/
 93, 160/Bom/93, 161/Bom/93, 176/Bom/93, 177/
 Bom/93, 181/Bom/93, 182/Bom/93, 194/Bom/93,
 195/Bom/93, 200/Bom/93, 201/Bom/93, 202/Bom/
 93, 203/Bom/93, 207/Bom/93 & 212/Bom/93.
 Hoechst India Ltd.—33/Bom/93, 153/Bom/93 & 206/
 Bom/93.
 Hong, K.—179/Bom/93.
 Hukeikar, V. D.—19/Bom/93 & 41/Bom/93.

—I—

Intech Exports Pvt Ltd.—123/Bom/93.

—J—

Jain, N.—1/Bom/93.
Jaswal, R. S.—94/Bom/93.
Joshi, H. K.—192/Bom/93.
Joshi, V. M.—23/Bom/93.

—K—

Kadodwalla, K. H.—30/Bom/93.
Kansara, R. B.—196/Bom/93.
Kavisha 3 Dimensions Pictures Pvt. Ltd.—88/Bom/93.
Kazi, M.B.B.—13/Bom/93.
Kelkar, M. D.—102/Bom/93 & 103/Bom/93.
Kirloskar Brothers Ltd.—191/Bom/93.
Kirloskar Pneumatic Co. Ltd.—131/Bom/93.
Koparde, V. P.—87/Bom/93.
Kulkarni, S. S.—43/Bom/93 & 44/Bom/93.
Kumar, R.—167/Bom/93.
Kumar, V.—71/Bom/93.
Kuracina, T. C.—186/Bom/93.
Kwaliti Frozen Foods Ltd.—114/Bom/93.

—L—

Lotus Polymers Pvt. Ltd.—95/Bom/93.
Lupin Laboratories Ltd.—72/Bom/93.

—M—

M—Systems Flash Disk Pioneers Ltd.—51/Bom/93.
Mallikarjun, K.—105/Bom/93.
Mankani, G. C.—101/Bom/93.
Manubhai, J. (Eng)—86/Bom/93 & 211/Bom/93.
Mashruwala, J.—169/Bom/93.
Mehta, S. P. (Shri)—133/Bom/93.
Mesquita, C. V.—61/Bom/93.
Mistry, S. S. (Shri)—152/Bom/93.
Mitsubishi Denki Kabushiki Kaisha-7/Bom/93.

—N—

Nair, K.V.R. (Shri)—154/Bom/93, 155/Bom/93 & 156/Bom/93.
Nalavade, N. S.—3/Bom/93.
Nalavade, R. N.—3/Bom/93.
Nalavade, S. N.—3/Bom/93.
Nevatia, R. N. (Shri)—141/Bom/93.
Nevrekar, V. R. (Shri)—119/Bom/93.
Nichroma Metal Works Pvt. Ltd.—24/Bom/93.
Nikam, B. B.—31/Bom/93 & 32/Bom/93.

—O—

Outokumpu Research OY—144/Bom/93.

—P—

Padhiar, C. P. (Shri)—134/Bom/93.
Padhiar, H. P. (Shri)—134/Bom/93.
Padhiar, P. I. (Shri)—134/Bom/93.
Panchal, J. S.—65/Bom/93.
Panthaki, G. K.—104/Bom/93.
Parajla, J. S.—187/Bom/93.
Patel, B. K. (Shri)—38/Bom/93.
Patel, B. N. (Shri)—136/Bom/93.
Patel, K. R. (Shri)—38/Bom/93.
Patel, P. H. (Shri)—139/Bom/93.
Pathak, D. U. (Dr)—8/Bom/93, 36/Bom/93 & 47/Bom/93.
Patil, R. U.—5/Bom/93.
Patil, U. S.—5/Bom/93 & 14/Bom/93.

Patricia Eruchsha Contractor—199/Bom/93.
Patwardhan, B.—188/Bom/93, 189/Bom/93 & 190/Bom/93.
Patwardhan, R. K. (Shri)—145/Bom/93.
Peico Electronics & Electricals Ltd.—26/Bom/93 & 79/Bom/93.
Phadke, N. V.—25/Bom/93.
Phadke, S. D. (Prof)—193/Bom/93.
Poddar, K. P. (Shri)—111/Bom/93.
Prabhu, M. R.—187/Bom/93.

—R—

Rajak, P. L.—93/Bom/93.
Rathi, A. M.—27/Bom/93.
Rathi, L. J.—27/Bom/93.
Rathi, N. S.—27/Bom/93.
Rathi, P. M.—27/Bom/93.
Rathi, S. L.—27/Bom/93.
Rathi, S. S. (Master)—27/Bom/93.
Ray, P. K. (Shri)—140/Bom/93.
Rochem Separation Systems (India) Pvt. Ltd.—66/Bom/93 and 67/Bom/93.

—S—

Sahasrabudhe, M. B. (Dr)—18/Bom/93.
Saraiva, M. J.—183/Bom/93.
Sarode, S. S.—175/Bom/93.
Sekaran, K.R.C.—98/Bom/93.
Shah, A. V.—209/Bom/93.
Shah, L. V.—100/Bom/93.
Shah, V. C.—208/Bom/93 & 210/Bom/93.
Shah, V. V.—100/Bom/93.
Sharma, S. K. (Shri)—135/Bom/93.
Shirke, A. (Shri)—115/Bom/93, 116/Bom/93, 117/Bom/93 and 118/Bom/93.
Shridhar V. K.—2/Bom/93 & 62/Bom/93.
Siemens Ltd.—185/Bom/93.
Sonanrao, P. M. (Prof)—28/Bom/93 & 29/Bom/93.
Star Holding & Electronics Research Pvt. Ltd.—9/Bom/93.
Sudarshan Chemical Industries Ltd.—54/Bom/93.
Suri, R. S.—198/Bom/93.
Surve, S. S.—74/Bom/93.

—T—

Tamhane, H. Y. (Shri)—120/Bom/93.
Thomas, T. P.—124/Bom/93.
Tiloo, A. K.—70/Bom/93.

—U—

Ultraline Instruments Pvt. Ltd.—205/Bom/93.

—V—

VIP Industries Ltd.—45/Bom/93 & 46/Bom/93.
Vaniyani, R. N.—42/Bom/93.
Varma, A. M.—129/Bom/93, 130/Bom/93 & 196/Bom/93.
Verma, S. K.—184/Bom/93.
Vertikum Maaszes Melyepitmenyjavito Kiszovetkezet M/S.—34/Bom/93.

—W—

Wadia, D. A.—40/Bom/93.
Wareham, R.—166/Bom/93.
Winro Infotech Ltd., Messrs.—148/Bom/93 & 173/Bom/93.

—Z—

Zaveri, A. (Shri)—142/Bom/93 & 143/Bom/93.
Zucker Gasification & Cageneration Ltd.—96/Bom/93 and 122/Bom/93.

MADRAS

(01/Mas/93 to 448/Mas/93)

—A—

A Ahlstrom Corporation—113/Mas/93.
 ABB Research Ltd.—427/Mas/93.
 AB Dick Co.—311/Mas/93.
 AE Staley Manufacturing Co.—193/Mas/93.
 Advanced Technologies (Cambridge) Ltd—175/Mas/93.
 Advanced Technologies Machine—386/Mas/93.
 Akzo Faser AG.—184/Mas/93.
 Akzo NV.—103/Mas/93.
 Alford, L.A.G.—387/Mas/93.
 Aluminium Pechiney—439/Mas/93.
 American Telephone and Telegraph Co.—432/Mas/93.
 Ammonia Casale S. A.—102/Mas/93.
 Amsted Industries Incorporated—118/Mas/93.
 Aparna Chemisearch—221/Mas/93.
 Asca Brown Boveri Ltd.—53/Mas/93, 97/Mas/93, 227/Mas/93, 233/Mas/93, 285/Mas/93, 420/Mas/93 & 440/Mas/93.
 Astra Research Centre India—255/Mas/93, 256/Mas/93, 257/Mas/93, 258/Mas/93, 284/Mas/93 & 290/Mas/93.
 Australasian Consultancy Services Pty. Ltd.—366/Mas/93.

—B—

BASF Aktiengesellschaft—74/Mas/93, 137/Mas/93, 206/Mas/93, 209/Mas/93 & 318/Mas/93.
 Bac-Pritchard, Inc.—67/Mas/93.
 Badami, V.R.N.R.—254/Mas/93.
 Balamani, S.—352/Mas/93.
 Bandgap Technology Corporation—46/Mas/93, 47/Mas/93, 269/Mas/93 & 313/Mas/93.
 Barmag AG.—343/Mas/93.
 Barnes, A. B.—234/Mas/93.
 Baskaran, K. R.—20/Mas/93.
 Basu, D. P.—443/Mas/93.
 Basu, R.—405/Mas/93 & 443/Mas/93.
 Bhatt, K. C.—200/Mas/93.
 Bhuvaneswaran, B.—278/Mas/93 & 426/Mas/93.
 Bimetal Bearings Ltd.—150/Mas/93.
 Biochemie Gesellschaft MBH—152/Mas/93.
 Biogal Gyogyszegvar RT.—418/Mas/93.
 Biomedical Engineering Development Center—314/Mas/93.
 Blackwell, B. J.—346/Mas/93.
 Borden, Inc.—42/Mas/93 & 43/Mas/93.
 Brain, A.I.J.—165/Mas/93.
 Braunschweiger Huttenwerk GmbH.—340/Mas/93.
 British-American Tobacco Co. Ltd.—324/Mas/93, 325/Mas/93 & 326/Mas/93.
 British Gas Plc.—38/Mas/93.

—C—

CD Radio Incorporated—368/Mas/93.
 CPC International Inc.—253/Mas/93.
 CFB, Inc.—375/Mas/93.
 Cannon-Muskegon Corporation—431/Mas/93.
 Carnaudmetal Box Plc.—148/Mas/93.
 Carne, C. M.—308/Mas/93.
 Carne, J. C.—308/Mas/93.
 Caterpillar Inc.—266/Mas/93, 296/Mas/93, 317/Mas/93, 319/Mas/93, 339/Mas/93, 341/Mas/93 & 408/Mas/93.
 Central Power Research Institute—86/Mas/93 & 312/Mas/93.
 Cerber, P.—104/Mas/93.

Cersan Establishment—374/Mas/93.
 Chandramouliwaran, R.—13/Mas/93.
 Charles Stark Draper Laboratory Inc., The—160/Mas/93.
 Chelpark Co. Pvt. Ltd. M/S.—4/Mas/93.
 Chevron Research and Technology Co.—154/Mas/93 & 428/Mas/93.
 Clemes, D. C.—345/Mas/93.
 Comalco Aluminium Ltd.—5/Mas/93, 6/Mas/93 & 120/Mas/93.
 Commonwealth Scientific and Industrial Research Organisation—162/Mas/93, 235/Mas/93, 394/Mas/93 & 414/Mas/93.
 Compagnie Generale Des Etablissements Michelin-Michelin & CIE.—347/Mas/93.
 Congoleum Corporation—61/Mas/93.
 Constantinescu, C.—30/Mas/93.
 Cornell Research Foundation, Inc.—306/Mas/93.

—D—

DSM N. V.—198/Mas/93, 389/Mas/93 & 445/Mas/93.
 Dakshin Transtex Pvt. Ltd.—215/Mas/93.
 Dana Corporation—62/Mas/93, 90/Mas/93, 91/Mas/93, 156/Mas/93 & 301/Mas/93.
 Das, S. V.—350/Mas/93 & 351/Mas/93.
 Davies, D.—308/Mas/93.
 Davy McKee (London) Ltd.—245/Mas/93.
 Delta Systems Design Ltd.—252/Mas/93.
 Desikachar, H.S.R.—442/Mas/93.
 Diamond, G. B.—376/Mas/93.
 Dow Chemical Co., The—176/Mas/93, 177/Mas/93, 277/Mas/93 & 367/Mas/93.
 Drives, W.—345/Mas/93.
 D'Souza, P. G.—392/Mas/93.
 Dymton, R. K.—112/Mas/93, 249/Mas/93 & 300/Mas/93.

—E—

Eberle Medizintechnische Elemente GmbH—72/Mas/93.
 Ecoair Corporation—105/Mas/93.
 Eferl, F.—281/Mas/93.
 Elbit Ltd.—421/Mas/93.
 Energy Biosystems Corporation—287/Mas/93 & 395/Mas/93.
 Engineer & Co.—149/Mas/93.
 Envirochill International Ltd.—54/Mas/93.
 Enrafchem Videomatic S.R.L.—205/Mas/93.

—F—

FCB—73/Mas/93.
 FMC Corporation—250/Mas/93.
 Flynn Bios, Inc.—430/Mas/93.
 Formica Espanola, S. A.—147/Mas/93.
 Four Corners Group, Inc.—369/Mas/93.
 Fried Krupp Hoesch—184/Mas/93.

—G—

GIRB Schwingungsisolierungen GmbH & Co. KG.—44/Mas/93.
 Gailev, R. M.—398/Mas/93.
 Goldstein, A.—166/Mas/93.
 Gopal, M.S.J.—442/Mas/93.
 Gopinath, R. (Dr)—174/Mas/93.
 Green Cross Corporation, The—127/Mas/93.
 Gunawan, R.—283/Mas/93.

—H—

Hamlin Transmission Corporation—18/Mas/93.
 Haynes International Inc.—106/Mas/93.
 Hedley Purvis Ltd—75/Mas/93.
 Helmrich, R.—376/Mas/93.
 Henkel Corporation—220/Mas/93.

Henkel Kommanditgesellschaft Auf Aktien.—78/Mas/93, 79/Mas/93, 80/Mas/93, 81/Mas/93, 82/Mas/93, 83/Mas/93, 84/Mas/93, 85/Mas/93 & 188/Mas/93.
 Henry, D.—396/Mas/93.
 Hercules Incorporated.—126/Mas/93.
 Herding GmbH Entstaubungsanlagen.—242/Mas/93.
 Hoechst, Aktiengesellschaft.—110/Mas/93, 139/Mas/93, 146/Mas/93, 173/Mas/93, 259/Mas/93, 332/Mas/93, 336/Mas/93 & 390/Mas/93.
 Homola, A. M.—112/Mas/93, 249/Mas/93 & 300/Mas/93.
 Hoogovens Technical Services Canada, Inc.—322/Mas/93.
 Horizon Calenders.—315/Mas/93.
 Huls Aktiengesellschaft.—87/Mas/93.

—I—

IDL Chemicals Ltd.—291/Mas/93 & 323/Mas/93.
 IFA Institute for Produktions & Arbetsplatsutveckling AB.—116/Mas/93.
 ITW Signode India Ltd.—170/Mas/93.
 Idemitsu Kosan Co. Ltd.—365/Mas/93.
 Indens S.P.A.—129/Mas/93.
 Indian Institute of Technology.—410/Mas/93.
 Institute of Gas Technology.—395/Mas/93.
 Institute Francais Du Petrole.—37/Mas/93, 99/Mas/93, 111/Mas/93, 159/Mas/93, 191/Mas/93, 208/Mas/93, 217/Mas/93, 218/Mas/93, 222/Mas/93, 307/Mas/93, 378/Mas/93 & 448/Mas/93.
 Interholding GmbH.—248/Mas/93.
 Intermart USA Corporation.—298/Mas/93.
 International Research and Development Corporation.—335/Mas/93.
 International Thermal Packaging, Ind.—70/Mas/93.
 Inventic AG.—52/Mas/93.
 Isaac L.—355/Mas/93.
 Isai, C. C.—288/Mas/93.
 Ishihara Sangyo Kaisha, Ltd.—161/Mas/93.
 Ismail, S. A.—168/Mas/93 & 169/Mas/93.
 Isoworth Limited.—273/Mas/93.
 Iyengar, G. V.—412/Mas/93.

—J—

J M Corporation.—402/Mas/93.
 J M Huber Corporation.—401/Mas/93.
 Janardan, S. H. V.—109/Mas/93.
 Japan Exlan Co. Ltd.—60/Mas/93.
 Jayakumar, S.—88/Mas/93.
 Jayarajan, P. K.—8/Mas/93.
 Jens, M.—280/Mas/93.
 John Crane Inc.—219/Mas/93, 327/Mas/93 & 348/Mas/93.
 Jo, R.—194/Mas/93.
 Joseph, M.—360/Mas/93.
 Joseph, P. D.—124/Mas/93.
 Jun, R. K.—59/Mas/93.
 Jyothsna, R.—271/Mas/93, 289/Mas/93 & 338/Mas/93.

—K—

Kadevi Engineering Co. Pvt. Ltd.—424/Mas/93.
 Kansai Paint Co. Ltd.—216/Mas/93.
 Karthikeyan, S.—435/Mas/93.
 Kickuth, A. Dipl. (Ing).—59/Mas/93.
 Kickuth, R. Prof. (Dr.).—59/Mas/93.
 Kirsch, A. (Dr.).—72/Mas/93.
 Klaus Herrmann Aktiengesellschaft.—407/Mas/93.
 Klockner Stahl GMBH.—181/Mas/93.
 Krishnamoorthy, S.—352/Mas/93.
 Krishnaswamy, C. S.—77/Mas/93.

Krupp Widis GmbH.—64/Mas/93, 65/Mas/93, 302/Mas/93, 303/Mas/93, 329/Mas/93, 330/Mas/93 & 331/Mas/93.
 Kumar, S. P.—211/Mas/93.
 Kvaerner Engineering A/s.—236/Mas/93, 237/Mas/93, 238/Mas/93 & 239/Mas/93.

—L—

L. P. G. Equipment Research Centre.—333/Mas/93.
 Lakshmi, S. V.—183/Mas/93.
 Lal, M.—21/Mas/93.
 Langenberg, J.—299/Mas/93.
 Larson, E. J. (Jr).—316/Mas/93.
 Lapha, Lyonnaise Industrielle Pharmaceutique.—68/Mas/93.
 Lonza Ltd.—31/Mas/93, 107/Mas/93, 187/Mas/93, 293/Mas/93, 297/Mas/93, & 373/Mas/93.
 Los Alamos Technical Associates, Inc.—172/Mas/93.
 Lucas Industries Public Ltd. Co.—244/Mas/93 & 419/Mas/93.
 Lu, J. L.—240/Mas/93.

—M—

Mallinckrodt Specialty Chemicals Co.—353/Mas/93.
 Mannesmann Aktiengesellschaft.—10/Mas/93.
 Maschinenfabrik Rieter AG.—17/Mas/93, 57/Mas/93, 58/Mas/93, 69/Mas/93, 141/Mas/93, 190/Mas/93, 228/Mas/93, 229/Mas/93, 241/Mas/93, 243/Mas/93, 260/Mas/93, 261/Mas/93, 272/Mas/93, 310/Mas/93, 328/Mas/93, 361/Mas/93, 379/Mas/93, 406/Mas/93, 417/Mas/93, 429/Mas/93, 433/Mas/93 & 444/Mas/93.
 Matarajan, G. V.—108/Mas/93.
 Mathew, J.—360/Mas/93.
 Mathew, M. V.—56/Mas/93.
 Mauser-Werke GmbH.—415/Mas/93.
 McCormick & Co. Inc.—32/Mas/93.
 Mechatronics Holding AG.—98/Mas/93.
 Mejer, S.—212/Mas/93.
 Mendes Inc.—422/Mas/93.
 Menon, M. A.—192/Mas/93.
 Merpro Azgaz Ltd.—371/Mas/93.
 Merpro Tortek Ltd.—180/Mas/93.
 Michelin Recherche Et Technique S.A.—151/Mas/93.
 Minnesota Mining and Manufacturing Co.—29/Mas/93, 196/Mas/93 & 276/Mas/93.
 Mondesh Ltd.—372/Mas/93.
 Monsanto Co.—35/Mas/93, 356/Mas/93, 362/Mas/93, 383/Mas/93, 384/Mas/93 & 385/Mas/93.
 Moore Products Co.—230/Mas/93.
 Mul-T-Lock Ltd.—27/Mas/93.
 Murugavel, S.—425/Mas/93.
 Murugesan, S.—12/Mas/93, 130/Mas/93 & 131/Mas/93.
 Muthu, T.—199/Mas/93.

—N—

Nardino, R.—354/Mas/93.
 Natarajan, S.—380/Mas/93.
 National Research Development Corporation.—213/Mas/93.
 Nayak, U. V.—22/Mas/93.
 Nu-Pipe Inc.—135/Mas/93.

—O—

O-I Brockway Glass, Inc.—92/Mas/93.
 Oclaseen Pharmaceuticals, Inc.—203/Mas/93.
 Ole-Bendt Rasmussen.—45/Mas/93.
 Oliver Rex Antio Emmanuel.—115/Mas/93, 164/Mas/93, 210/Mas/93 & 358/Mas/93.
 Omer, S.—179/Mas/93, 274/Mas/93 & 275/Mas/93.
 Omitrac Corporation.—201/Mas/93.
 Ovonic Battery Co., Inc.—282/Mas/93.
 Owens—Brockway Glass Container Inc.—403/Mas/93.
 Owens-Illinois Plastic Products Inc.—138/Mas/93.
 Owens-Illinois Closure Inc.—39/Mas/93 & 265/Mas/93.

—P—

P P S Project Promotion Services AB.—122/Mas/93.
 Pacific Chemical Co., Ltd.—140/Mas/93.
 Packett, D. L.—446/Mas/93.
 Pall Corporation—155/Mas/93 & 305/Mas/93.
 Paramashivappa, P./71/Mas/93.
 Penglase, J.—441/Mas/93.
 Patrie, L. R.—308/Mas/93.
 Pharma-Plast International A/S.—189/Mas/93.
 Philip Morris Products Inc.—134/Mas/93 & 204/Mas/93.
 Pilkington PLC.—178/Mas/93 & 207/Mas/93.
 Pillay, P.—268/Mas/93.
 Pillay, S.—268/Mas/93.
 Plastro-Gvat—26/Mas/93.
 Podell, D. L.—166/Mas/93.
 Podell, H. I.—166/Mas/93.
 Power Team Division—388/Mas/93.
 Prince Manufacturing, Inc.—100/Mas/93.

—Q—

Quarella S. r. l.—321/Mas/93.

—R—

Rapa, G.—125/Mas/93.
 Rajan, S. S.—349/Mas/93.
 Rajarajan, S.—12/Mas/93, 130/Mas/93 & 131/Mas/93.
 Rajendrabab, I. A.—232/Mas/93.
 Rajendran, R.—33/Mas/93.
 Raju, M. V. N. S.—28/Mas/93.
 Ramamoorthy, S. L.—7/Mas/93.
 Ramarathnam, V.—123/Mas/93.
 Ramesh, R.—271/Mas/93, 289/Mas/93 & 338/Mas/93.
 Rammohan, C.—3/Mas/93.
 Rao, D. S. (Prof)—19/Mas/93.
 Rao, I. G.—263/Mas/93.
 Rao, P. R. L.—158/Mas/93 & 309/Mas/93.
 Ravindranath, R.—63/Mas/93.
 Ravindran, C.—352/Mas/93.
 Raychem Corporation—157/Mas/93.
 Recticel Holding Noord BV.—346/Mas/93.
 Reddy, C. R.—195/Mas/93.
 Relter Ingolstadt Spinnereimaschinenbau Aktiengesellschaft—133/Mas/93 & 334/Mas/93.
 Rengarajan, V.—352/Mas/93.
 Research Institute for Production Development and Mitsui & Co. Ltd.—223/Mas/93.
 Reunert Mechanical Systems Ltd.—225/Mas/93.
 Rheumatic Inc.—400/Mas/93.
 Rhone-Poulenc Chimie—136/Mas/93.
 Rleter Ingolstadt—23/Mas/93, 24/Mas/93, 25/Mas/93, 93/Mas/93 & 119/Mas/93.
 Roberto, R.—354/Mas/93.
 Rockwell International Corporation—226/Mas/93.
 Rose, A. K. (Dr)—357/Mas/93.
 Rosi S. A.—111/Mas/93.

—S—

SMS Schloemenn-Siemeg Aktiengesellschaft—2/Mas/93, 36/Mas/93, 96/Mas/93, 144/Mas/93, 145/Mas/93 & 197/Mas/93.
 Sambamurthy, K. (Prof)—19/Mas/93.
 Sandvik AB.—66/Mas/93.
 Sankaran, K.—15/Mas/93.
 Sanyo Electric Co. Ltd.—167/Mas/93.
 Satyanarayanan, R.—89/Mas/93.
 Schoeller-Plast S.A.—9/Mas/93.
 Scottish and Newcastle Plc.—393/Mas/93.
 Sedepro—286/Mas/93 & 438/Mas/93.

Sepracor, Inc.—434/Mas/93.
 Seque Corporation—14/Mas/93.
 Seshadri, K.—123/Mas/93.
 Shaikhumer (Dr)—370/Mas/93.
 Shell International Research Maatschappij B.V.—246/Mas/93 & 247/Mas/93.
 Shet, G. V.—34/Mas/93, 95/Mas/93, 114/Mas/93 & 339/Mas/93.
 Shetty, Y. H. S.—132/Mas/93.
 Siddons Ramset Ltd.—162/Mas/93.
 Singh, C.—21/Mas/93.
 Smithkline Beechem PLC.—251/Mas/93.
 Snamprogetti S.P.A.—117/Mas/93.
 Societe Des Electrodes Et Refractaires Saviole-Sers—397/Mas/93.
 Societe Des Produits Nestle S.A.—447/Mas/93.
 Societe Francaise Hoechst—16/Mas/93 & 49/Mas/93.
 Sockalingam, S.—352/Mas/93.
 Solar Cells, Inc.—294/Mas/93.
 Sonex Research, Inc.—364/Mas/93.
 Sony Corporation—185/Mas/93.
 Southern Magnetics Pvt. Ltd.—20/Mas/93.
 South India Textile Research Association, The—11/Mas/93 & 76/Mas/93.
 Spangler, G.—299/Mas/93.
 Spic Science Foundation—264/Mas/93.
 Sree Chitra Tirunal Institute for Medical Sciences and Technology—50/Mas/93, 279/Mas/93 & 295/Mas/93.
 Sreekumar, P.—404/Mas/93.
 Srinivasan, R.—1/Mas/93.
 Sri Seshasayee Knittings Pvt. Ltd.—423/Mas/93.
 State Electricity Commission of Victoria—312/Mas/93.
 Statens Serum Institut—231/Mas/93.
 Sternheimer, J.—381/Mas/93.
 Stout, R. K.—267/Mas/93.
 Sumitomo Chemical Co. Ltd.—411/Mas/93, 412/Mas/93 and 413/Mas/93.
 Sundaram-Clayton Ltd.—409/Mas/93.
 Sundar, K. S.—270/Mas/93.
 Sven-Eric Bjodin—55/Mas/93.

—T—

TRW Inc.—304/Mas/93.
 T. Sendzimir, Inc.—436/Mas/93 and 437/Mas/93.
 Taurus Impressions, Inc.—416/Mas/93.
 Taylor, C. N.—292/Mas/93.
 Tetra Alfa Holdings S.A.—41/Mas/93.
 Thirupathy, V. V. T.—143/Mas/93, 153/Mas/93 & 359/Mas/93.
 Tidy Tea Ltd.—214/Mas/93.
 Turbine Blading Ltd.—142/Mas/93, 320/Mas/93 & 377/Mas/93.

—U—

Union Carbide Chemicals & Plastics Technology Corporation—40/Mas/93 & 51/Mas/93.
 Union Oil Co. of California—224/Mas/93.
 University of Queensland, The—394/Mas/93.

—V—

Valdunes—391/Mas/93.
 Varadarajan, T.V.—352/Mas/93.
 Vijayan, S. K.—94/Mas/93.
 Vijayan, T. A. P.—171/Mas/93.
 Vontech International Corporation—202/Mas/93.
 Vorwerk & Co.—248/Mas/93.

—W—

Watschle Maschinenfabrik GmbH.—186/Mas/93.
Westain Technologies Inc.—337/Mas/93
Wes Technology Inc.—48/Mas/93.
Westinghouse Brake and Signal Holdings Ltd.—163/Mas/93.
Wm. Wrigley Jr. Company—363/Mas/93.
Woltech (Proprietary) Ltd.—128/Mas/93.

—Y—

Yale University—182/Mas/93.
Yoshida Kogyok. K.—262/Mas/93.

—Z—

Zatler, A.—281/Mas/93.
Zellweger Uster AG.—101/Mas/93, 121/Mas/93, 344/Mas/93 and 382/Mas/93.

DELHI

(01/Del/93 to 678/Del/93)

498775 Ontario Ltd.—639/Del/93.

—A—

AMP Holland B.V.—375/Del/93.
AVL Gesellschaft Fur Verbrennungskraftmaschinen Und Messtechnik M.B.H. Prof. Dr. Dr. H. C. Hans List—31/Del/93.
Advanced Materials Technologies Pte Ltd.—564/Del/93.
Agarwal, V. K.—54/Del/93.
Agricultural and Food Research Council, The—466/Del/93.
Agrolinz Agrarchemilalien Gesellschaft mbH.—51/Del/93.
Aktiebolaget Astra—101/Del/93, 343/Del/93, 380/Del/93 & 569/Del/93.
Albion Industries, Inc.—149/Del/93.
Albright & Wilson Ltd.—81/Del/93 & 464/Del/93.
Alcoa of Australia Ltd.—100/Del/93.
Alimov, D. T.—450/Del/93.
Allegheny Ludlum Corporation—344/Del/93.
Allied Signal Inc.—104/Del/93, 105/Del/93, 106/Del/93 & 385/Del/93.
Alliedsignal Ltd.—47/Del/93.
Amoco Corporation—584/Del/93.
Armorvision Plastics & Glass—165/Del/93.
Asea Brown Boveri AB.—57/Del/93, 580/Del/93 & 602/Del/93.
Austpac Gold N.L.—112/Del/93.
Automotive Productions PLC.—357/Del/93.
Avery International Corporation—562/Del/93.

—B—

B. F. Goodrich Co., The—114/Del/93.
B. M. Birla Science & Technology Centre—657/Del/93.
BMC Technology Corporation—11/Del/93.
B P Chemicals Ltd.—374/Del/93, 545/Del/93 & 568/Del/93.
B P Solar Ltd.—495/Del/93.
Bachhawat, B. K. (Prof.)—251/Del/93.
Baker Hughes Incorporated—397/Del/93.
Balance Technology Ltd. Partnership—519/Del/93
Balcke-Durr Aktiengesellschaft—202/Del/93.
Bani, S. 479/Del/93.
Baryshev, A. F.—225/Del/93.
Bausch & Lomb Incorporated—641/Del/93 & 675/Del/93.
Bayer Antwerpen N. V.—79/Del/93.
Becton Dickinson and Company—577/Del/93.
Belden, R. A.—170/Del/93.
Beltz, A. D.—144/Del/93.
Bendix Europe Services Techniques—330/Del/93 & 331/Del/93.
Bhagat, R.—9/Del/93.
Bhalla, G. L.—219/Del/93.

Bharat Heavy Electricals Ltd. M/S.—383/Del/93, 429/Del/93, 498/Del/93, 499/Del/93, 500/Del/93, 524/Del/93 & 525/Del/93.
Bhatia, H. C.—572/Del/93 & 629/Del/93.
Bhatnagar, A. K.—364/Del/93, 365/Del/93, 572/Del/93 & 629/Del/93.
Bhattacharyya, A. B.—138/Del/93.
Bimota S.P.A.—384/Del/93.
Biopak Technology, Ltd.—159/Del/93.
Blue Planet Technologies Co. L.P.—181/Del/93, 182/Del/93 & 188/Del/93.
Bofors AB.—52/Del/93 & 603/Del/93.
Bores, P. S.—504/Del/93.
Bose, G. (Dr.)—137/Del/93.
Brentwood Industries, Inc.—402/Del/93.
Brian Burnett Chandler—35/Del/93.
Brilcut Patentanstalt—608/Del/93.
British Technology Group Ltd.—132/Del/93.
Bush House Pty. Ltd.—256/Del/93.

—C—

Care Medical Devices, Inc.—230/Del/93.
Carillon Development Ltd.—13/Del/93.
Carrier Corporation—160/Del/93.
Cecoco Machinery Manufacturing Ltd.—456/Del/93.
Centre Stephanois De Recherches Mecaniques Hydromecanique Et Frottement—85/Del/93 — 649/Del/93.
Chakladar, D.—121/Del/93.
Chaudhary, O. S. (Dr.)—430/Del/93.
Cheema, H. S.—573/Del/93.
Chemio Linz Gesellschaft M.B.H.—210/Del/93 & 244/Del/93.
Chief Controller, R & D, The—174/Del/93, 355/Del/93, 366/Del/93 & 396/Del/93.
Coflexip—351/Del/93.
Colgate-Palmolive Co.—229/Del/93, 526/Del/93, 527/Del/93, 636/Del/93, 637/Del/93 & 638/Del/93.
Cominco Engineering Services Ltd.—339/Del/93.
Composite Technology Pty. Ltd.—362/Del/93.
Corning Incorporated—146/Del/93 & 422/Del/93.
Coronet-Werke Heinrich Schlerf GmbH.—541/Del/93 & 542/Del/93.
Cosmo Films Ltd.—140/Del/93.
Council of Scientific and Industrial Research—15/Del/93, 16/Del/93, 17/Del/93, 18/Del/93, 19/Del/93, 68/Del/93, 69/Del/93, 70/Del/93, 71/Del/93, 72/Del/93, 73/Del/93, 74/Del/93, 75/Del/93, 76/Del/93, 123/Del/93, 124/Del/93, 125/Del/93, 126/Del/93, 127/Del/93, 128/Del/93, 129/Del/93, 189/Del/93, 190/Del/93, 191/Del/93, 192/Del/93, 193/Del/93, 194/Del/93, 195/Del/93, 196/Del/93, 197/Del/93, 198/Del/93, 199/Del/93, 218/Del/93, 278/Del/93, 279/Del/93, 280/Del/93, 281/Del/93, 282/Del/93, 283/Del/93, 284/Del/93, 285/Del/93, 286/Del/93, 287/Del/93, 288/Del/93, 289/Del/93, 290/Del/93, 291/Del/93, 292/Del/93, 296/Del/93, 297/Del/93, 298/Del/93, 299/Del/93, 300/Del/93, 301/Del/93, 302/Del/93, 303/Del/93, 304/Del/93, 310/Del/93, 311/Del/93, 312/Del/93, 313/Del/93, 314/Del/93, 334/Del/93, 335/Del/93, 367/Del/93, 368/Del/93, 369/Del/93, 370/Del/93, 371/Del/93, 372/Del/93, 373/Del/93, 481/Del/93, 482/Del/93, 483/Del/93, 511/Del/93, 512/Del/93, 513/Del/93, 514/Del/93, 547/Del/93, 548/Del/93, 549/Del/93, 558/Del/93, 559/Del/93, 560/Del/93, 586/Del/93, 587/Del/93, 588/Del/93, 589/Del/93, 590/Del/93, 642/Del/93, 643/Del/93, 644/Del/93, 645/Del/93, 660/Del/93, 661/Del/93, 662/Del/93 and 663/Del/93.
Crasset, D.—270/Del/93.
Creter, R. E.—342/Del/93.
Cricket—110/Del/93.

—D—

Dabholkar, D. A.—219/Del/93
 Datta, A.—227/Del/93
 Dattatraya, H. M. (Shri)—623/Del/93
 De Beer Industrial Diamond Division (Proprietary) Ltd.—254/Del/93
 Dekter Chemicals (I) Pvt. Ltd.—220/Del/93
 De La Rue Giori S.A.—134/Del/93, 135/Del/93, 136/Del/93 and 179/Del/93.
 Delsey—455/Del/93
 Detecon Deutsche Telepost Consulting GMBH—583/Del/93
 Dhwan, B. K.—585/Del/93
 Dongre, N. R.—120/Del/93
 Doomra, S. K.—277/Del/93
 Doir-Oliver Incorporated—78/Del/93, 96/Del/93, 97/Del/93 and 609/Del/93.
 Dresser Industries Inc.—539/Del/93
 Dutta, C. M.—324/Del/93
 Dutt, C.—480/Del/93

—E—

ELF Antar France—294/Del/93
 ELF Atochem S.A.—86/Del/93
 Edap International—7/Del/93 & 8/Del/93
 Emhart Glass Machinery Investments Inc.—213/Del/93
 Erno Raumfahrttechnik GmbH—91/Del/93
 Euroceltique, S.A.—307/Del/93
 Exxon Chemical Patents Inc.—130/Del/93, 329/Del/93, 550/Del/93 & 650/Del/93

—F—

FMC Corporation—457/Del/93
 Finex Handels—GmbH—327/Del/93.
 Francois Chaygneaud-Dupuy—164/Del/93
 Freeport Momoran Resource Partners, Ltd. Partnership—201/Del/93
 Fienkel C + D Aktiengesellschaft—576/Del/93
 Fuller Company—518/Del/93

—G—

GEC Alsthom Equipements Basse Tension S.A.—268/Del/93.
 Gadi, A.—395/Del/93
 General Electric Co.—23/Del/93, 24/Del/93, 92/Del/93, 147/Del/93, 148/Del/93, 410/Del/93, 505/Del/93 & 646/Del/93
 General Tire, Inc.—82/Del/93
 Gillette Canada Inc.—489/Del/93
 Gillette Co., The—414/Del/93 & 468/Del/93
 Goodyear Tire & Rubber Co., The—43/Del/93, 44/Del/93, 234/Del/93, 235/Del/93 & 664/Del/93
 234/Del/93 & 646/Del/93
 Gori Af 1902—529/Del/93
 Gould Inc.—5/Del/93 & 241/Del/93
 Grover, P. D.—39/Del/93 & 40/Del/93
 Guardian Industries Corporation—162/Del/93 & 163/Del/93
 93
 Gupta, A.—479/Del/93
 Gupta, A. A.—364/Del/93 & 365/Del/93
 Gupta, A. K.—572/Del/93 & 629/Del/93
 Gupta, M. C.—530/Del/93.

—H—

Heating Devices & Controls—246/Del/93
 Herstellung Und Vertrieb Hochreiner Biosubstanzen—337/Del/93
 Hitchiner Manufacturing Co. Inc.—257/Del/93

Honda Giken Kogyo Kabushiki Kaisha—28/Del/93, 56/Del/93, 200/Del/93 & 581/Del/93.
 Hughes Aircraft Co.—111/Del/93 & 400/Del/93
 Hu, L.—239/Del/93 & 674/Del/93
 Hydro-Quebec—592/Del/93

—I—

IBVT Ingenieurburo Fur Ver Abrenstechnik GMBH—591/Del/93.
 ICI Australia Operations Proprietary Ltd.—412/Del/93
 ICI Canada Inc.—563/Del/93
 ID & S S R L—630/Del/93
 INTEC Pty Ltd—656/Del/93
 Ide, R. D.—22/Del/93, 411/Del/93, 451/Del/93 & 634/Del/93.
 Imit, A. C.—390/Del/93.
 Imperial Chemical Industries PLC—133/Del/93, 360/Del/93, 379/Del/93, 415/Del/93, 416/Del/93, 440/Del/93, 441/Del/93, 442/Del/93, 496/Del/93, 501/Del/93, 521/Del/93, 522/Del/93, 575/Del/93, 599/Del/93 & 655/Del/93
 Indian Herbs Research & Supply Co. Messre—546/Del/93.
 Indo-French Centre for The Promotion of Advanced Research, The—443/Del/93
 Industrial Management Co.—36/Del/93
 Ingersoll-Rand Co.—131/Del/93
 Innovatex Automatisierungstechnik GHBH—406/Del/93

—J—

International Business Machines Corporation—318/Del/93 & 363/Del/93.
 Isap Omv Group Spa—80/Del/93

—K—

Jain, S. S.—272/Del/93
 John Crane UK Ltd—627/Del/93
 Jonhig Ltd.—423/Del/93
 KMC, Inc.—411/Del/93
 Kabushiki Kaisha Toshiba—394/Del/93
 Kalra, K. D.—601/Del/93
 Kapoor, S.—255/Del/93
 Karl Fischer Industrieanlagen GmbH—45/Del/93
 Kashyap, A. K.—574/Del/93
 Kennametal Inc.—469/Del/93, 470/Del/93 & 677/Del/93
 Khare, M.—461/Del/93.
 Kooperativ "Kardiolog"—139/Del/93
 Korea Research Institute of Chemical Technology—428/Del/93 & 523/Del/93
 Kiaft General Foods, Inc.—27/Del/93, 216/Del/93 & 336/Del/93.
 Krofta, M.—506/Del/93 & 507/Del/93
 Krupp Polysius AG—155/Del/93, 326/Del/93 & 391/Del/93.
 Kumar, D.—62/Del/93
 Kumar, R.—354/Del/93
 Kutty, P. P. A.—3/Del/93
 Kverneland Klepp AS.—169/Del/93

—L—

LI Medical Technologies, Inc.—421/Del/93
 Laboratorios Cusi, S.A.—665/Del/93
 L' Air Liquide, Societe Anonyme Pour L'Etude Et L'Exploitation Des Procedos Georges Claude—232/Del/93 & 453/Del/93.
 Lec, M. S.—535/Del/93.
 Lenzing Aktiengesellschaft—12/Del/93 & 217/Del/93.
 Lexmark International, Inc.—180/Del/93 & 622/Del/93

Ionza Inc.—516/Del/93 & 517/Del/93.

Lubrizol Corporation, The—25/Del/93, 49/Del/93 184/Del/93, 185/Del/93, 186/Del/93, 187/Del/93 236/Del/93 432/Del/93, 433/Del/93, 434/Del/93 435/Del/93 531/Del/93, 600/Del/93 & 611/Del/93.

Luxmi Ancillaries Pvt. Ltd.—358/Del/93.

—M

MCNC.—203/Del/93.

Macbon Pty. Ltd.—107/Del/93.

Madan, A.K.—39/Del/93 & 40/Del/93.

Mearz-Ofenbau AG.—103/Del/93.

Maini, S.—95/Del/93.

Malhotra, O.P.—405/Del/93.

Maschinenfabrik Sulzer-Burckhardt AG.—258/Del/93.

Maui Shilake Trading Co. Inc.—444/Del/93, 445/Del/93 and 446/Del/93.

McCoy, R.G.—249/Del/93.

Mearthane Products Corporation—398/Del/93.

Megpules Inc.—98/Del/93.

Mehta, A.K.—172/Del/93 & 173/Del/93.

Mejias, T.B.—449/Del/93.

Merritt, D.—84/Del/93.

Miller, J.B.—221/Del/93 & 222/Del/93.

Mineral Deposits Ltd.—118/Del/93.

Misra, A.K.—364/Del/93 & 572/Del/93.

Mobil Solar Energy Corporation—472/Del/93 & 473/Del/93.

Morgan Crucible Co., The—34/Del/93.

Motorola Inc.—4/Del/93, 37/Del/93, 63/Del/93, 83/Del/93, 109/Del/93, 178/Del/93, 269/Del/93, 401/Del/93, 413/Del/93, 520/Del/93, 593/Del/93, 610/Del/93 612/Del/93, 625/Del/93 626/Del/93, 666/Del/93 & 667/Del/93.

Motorola Ltd.—315/Del/93 & 316/Del/93.

Munjial, S.K.—533/Del/93 & 540/Del/93.

—N

NKK Corporation—273/Del/93.

Nagi, H.S.—353/Del/93.

Nalco Chemical Co.—676/Del/93.

National Power PLC.—555/Del/93.

Neale, P.C.—356/Del/93.

Nielson, J.P.—420/Del/93.

Nigam, J.K.—219/Del/93.

Nordson Corporation—341/Del/93 & 386/Del/93.

Norsk Hydro A.S.—417/Del/93.

Novapharma Research (Australia) Pty. Ltd.—418/Del/93.

Nnchem Ltd.—556/Del/93.

—O

Oliver Rubber Co.—607/Del/93 & 640/Del/93.

Orbital Engine Co. (Australin) Pty. Ltd.—117/Del/93, 152/Del/93 & 492/Del/93

—P

Pandya, I. S. (Mr.)—478/Del/93.

Parker, K.R.—376/Del/93.

Partap Steels Ltd.—462/Del/93.

Paulastya, R.K.—172/Del/93 & 173/Del/93.

Paul Wurth S.A.—493/Del/93, 544/Del/93 & 606/Del/93.

Perkins Ltd.—150/Del/93.

Pfizer Inc.—309/Del/93, 389/Del/93, 543/Del/93 & 551/Del/93.

Piaggio Veicoli Europei S.P.A.—42/Del/93.

Pilgrim Moorside Ltd.—532/Del/93.

Planning Commission—628/Del/93.

Plascon Technologies (Proprietary) Ltd.—399/Del/93.

Prakash, J. (Dr.)—552/Del/93 & 553/Del/93

Prakash, S.—364/Del/93 & 365/Del/93.

Procter & Gamble Co. The—1/Del/93, 32/Del/93, 33/Del/93, 58/Del/93, 59/Del/93, 60/Del/93, 61/Del/93, 66/Del/93, 87/Del/93, 90/Del/93, 99/Del/93, 102/Del/93, 115/Del/93, 116/Del/93, 157/Del/93, 167/Del/93, 204/Del/93, 205/Del/93, 206/Del/93 207/Del/93, 237/Del/93, 238/Del/93, 247/Del/93, 259/Del/93, 260/Del/93, 261/Del/93, 262/Del/93, 263/Del/93, 264/Del/93, 265/Del/93, 305/Del/93, 306/Del/93, 319/Del/93, 320/Del/93, 321/Del/93, 322/Del/93, 323/Del/93, 332/Del/93, 333/Del/93, 345/Del/93, 346/Del/93, 347/Del/93, 348/Del/93 392/Del/93, 393/Del/93, 427/Del/93, 448/Del/93 452/Del/93, 463/Del/93, 471/Del/93, 484/Del/93 485/Del/93, 490/Del/93, 491/Del/93, 510/Del/93 534/Del/93, 537/Del/93, 557/Del/93, 578/Del/93 579/Del/93, 596/Del/93, 597/Del/93, 598/Del/93, 604/Del/93, 619/Del/93, 620/Del/93, 633/Del/93, 654/Del/93, 668/Del/93, 669/Del/93, 670/Del/93, 671/Del/93, 672/Del/93 & 673/Del/93.

Purolator India Ltd.—94/Del/93.

Pyndiah, G. (Shri)—653/Del/93.

—Q

Qidwai, M.S.—175/Del/93, 176/Del/93 & 382/Del/93.

—R

Raghubir, S. (Shri)—653/Del/93.

Rai, M.M.—364/Del/93, 365/Del/93, 572/Del/93 & 629/Del/93.

Raina, A.—227/Del/93.

Rajastri—93/Del/93.

Ramanathan, K.—89/Del/93.

Ram, M. (Shri)—647/Del/93, 651/Del/93 & 652/Del/93.

Rana, B.K.—571/Del/93.

Ranganathan, D. (Dr.)—137/Del/93.

Ranpak Corporation—404/Del/93.

Raskar, R. V.—171/Del/93.

Rathor, B.C.—250/Del/93 & 613/Del/93.

Recovermat Technologies, Inc.—14/Del/93.

Redmond, S.—248/Del/93.

Rescal International Ltd. Partnership—494/Del/93.

Research Development Foundation—88/Del/93.

Research Foundation for Microbial Diseases of Osaka University, The—454/Del/93.

Reynolds, M.J.—142/Del/93 and 143/Del/93.

Richardson-Vicks, Inc.—223/Del/93.

Richard Voss Grubenausbau GmbH.—458/Del/93.

Rohatgi, P.K.—381/Del/93.

Rohm and Haas Company—26/Del/93, 64/Del/93, 119/Del/93, 154/Del/93, 228/Del/93, 253/Del/93, 293/Del/93, 295/Del/93, 361/Del/93, 378/Del/93, 407/Del/93, 408/Del/93, 409/Del/93, 477/Del/93, 477/Del/93, 605/Del/93, 614/Del/93, 615/Del/93, 616/Del/93, 617/Del/93 and 618/Del/93.

Rohm GmbH.—340/Del/93 and 648/Del/93.

Ross, A.—55/Del/93

Roussel-Uclaf.—122/Del/93, 158/Del/93 and 567/Del/93.

Roy, I.M.—509/Del/93.

—S

Sab Wabco Holdings B.V.—30/Del/93.

Sahal, D.—251/Del/93 and 317/Del/93.

Samsonite Corporation—151/Del/93, 211/Del/93, 212/Del/93, 243/Del/93 and 431/Del/93.

Sanghi, A.K.—153/Del/93.

Sarin, R.—572/Del/93 and 629/Del/93.

Sawhney, S.N.—479/Del/93.

Secretary of State For Defence in Her Britannic Majesty's The—582/Del/93.

Sekhon, K.S.—353/Del/93, 658/Del/93 and 659/Del/93.
 Sengupta, K.K.—325/Del/93.
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 Sharma, P.K.—479/Del/93.
 Sharma, S.—353/Del/93.
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 Shell Oil Co.—10/Del/93, 145/Del/93, 166/Del/93, 465/Del/93 and 488/Del/93.
 Shriram Institute for Industrial Research—214/Del/93 and 215/Del/93.
 Sidhu, S.S.—275/Del/93 and 276/Del/93.
 Sidwal Refrigeration Industries Pvt. Ltd.—41/Del/93.
 Sikri, R.—624/Del/93.
 Singh, A.—172/Del/93 and 173/Del/93.
 Singh, B.—658/Del/93 and 659/Del/93.
 Singh, G.B.—479/Del/93.
 Singh, N.—658/Del/93 and 659/Del/93.
 Singh, T.A.—67/Del/93.
 Singh, T.K.—67/Del/93.
 Sintercast Ltd.—349/Del/93 and 350/Del/93.
 Societe De Conseils De Recherches Et D'Applications Scientifiques (S.C.R.A.S.)—252/Del/93, 308/Del/93, 508/Del/93 and 678/Del/93.
 Solankey, G.K.—570/Del/93.
 Solvay—436/Del/93, 437/Del/93 and 460/Del/93.
 Sony Corporation—271/Del/93.
 Sovmestnoe Sovetskoe-Shveitsarsko-Amerikanskoe Predpriyatie—528/Del/93.
 Spartanica, Ltd.—168/Del/93.
 Specialty Refractories, Inc.—183/Del/93.
 Srimal, S.—251/Del/93 and 317/Del/93.
 Srivastava, S.—9/Del/93.
 Steel Authority of India Ltd.—497/Del/93 and 566/Del/93.
 Stein Industrie—6/Del/93 and 387/Del/93.

—S—

Sundhar, S.P.—377/Del/93.
 Super Parts Ltd.—274/Del/93.
 Sureka, J.—245/Del/93.
 Sureka, S.—245/Del/93.
 Swamy, K.K.—364/Del/93 and 365/Del/93.

—T—

Telemecanique—424/Del/93 and 425/Del/93.
 Tenneco Canada Inc.—29/Del/93.
 Tioxide Group Services Ltd.—486/Del/93 and 487/Del/93.
 Torrington Company, The—476/Del/93.
 Trifollo-M GmbH.—337/Del/93.
 Tuli, D.K.—572/Del/93, and 629/Del/93.
 Tull, S.—138/Del/93.

—U—

UOP.—177/Del/93, 208/Del/93, 266/Del/93, 447/Del/93, 536/Del/93 and 621/Del/93.
 Unice Machine Co. Inc.—53/Del/93.
 Unigem International—226/Del/93.
 Uniroyal Chemical Co., Inc.—403/Del/93.
 Uniroyal Goodrich Tire Co., The—352/Del/93.
 University of Georgia Research Foundation—595/Del/93.

—V—

Virgin Metals (Canada) Ltd.—20/Del/93 and 21/Del/93.
 Visage, Inc.—240/Del/93.
 Voest-Alpine Industrieanlagenbau GmbH.—503/Del/93 and 594/Del/93.
 Vorsteher, S.—554/Del/93.

—W—

W.R. Grace & Co. Conn.—77/Del/93, 156/Del/93, 231/Del/93, 267/Del/93, 338/Del/93 and 631/Del/93.
 Wadhawan, G.—141/Del/93 and 209/Del/93.
 Wadhwa, K.B.L.—515/Del/93.
 Watertec (Malaysia) Sdn Bhd.—50/Del/93.
 Weber, E.—549/Del/93.
 Westinghouse Air Brake Co.—419/Del/93.
 Whirlpool Corporation—2/Del/93 and 632/Del/93.
 Whitaker Corporation, The—65/Del/93, 113/Del/93, 359/Del/93, 439/Del/93, 467/Del/93 and 561/Del/93.
 Woormer, B.E.—388/Del/93.

—Y—

Yeomans, A.J.—426/Del/93.
 Yuen, H.C.—438/Del/93.
 Yuen, H.C.C.—538/Del/93 and 565/Del/93.

—Z—

Zeneca Ltd.—46/Del/93, 48/Del/93, 108/Del/93, 161/Del/93 and 502/Del/93.
 Zeon Chemicals U.S.A. Inc.—38/Del/93.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration included in the entries:

- Class 3, No. 165220. R.C. Products (India), T-2403, Faiz Road, Karol Bagh, New Delhi-110005, India, Indian Partnership Firm. "Pollution mask". January 28, 1993.
- Class 3, No. 165847. Eagle Flask Industries Limited, Eagle Estate, Talegaon 410507, Dist. Pune, Maharashtra, India "Flask". July 6, 1993.
- Class 3, Nos. 166172 and 166173. Canon Kabushiki Kaisha of 30-2, 3-Chome, Shimomaru-ku, Ohta-ku, Tokyo, Japan, Japanese Company. "Ink cartridge for printer". September 16, 1993.
- Class 4, No. 165420. Mohan Meakin Limited Indian Company, Solan Brewery, P. O. 173214, Simla Hills, Himachal Pradesh, India. "Bottle". March 11, 1993.
- Class 4, No. 165708. James Gilbert (Rugby Footballs) Ltd., British Company of 5, St Mathews Street, Rugby, Warwickshire CV21 3BY, U.K. "Rugby Football". Priority date January 12, 1993 (UK)

R. A. ACHARYA
 Controller General of Patents, Designs
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प्रबन्धक, भारत सरकार मद्रासालय, फरीदाबाद द्वारा मद्रित

एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1994

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